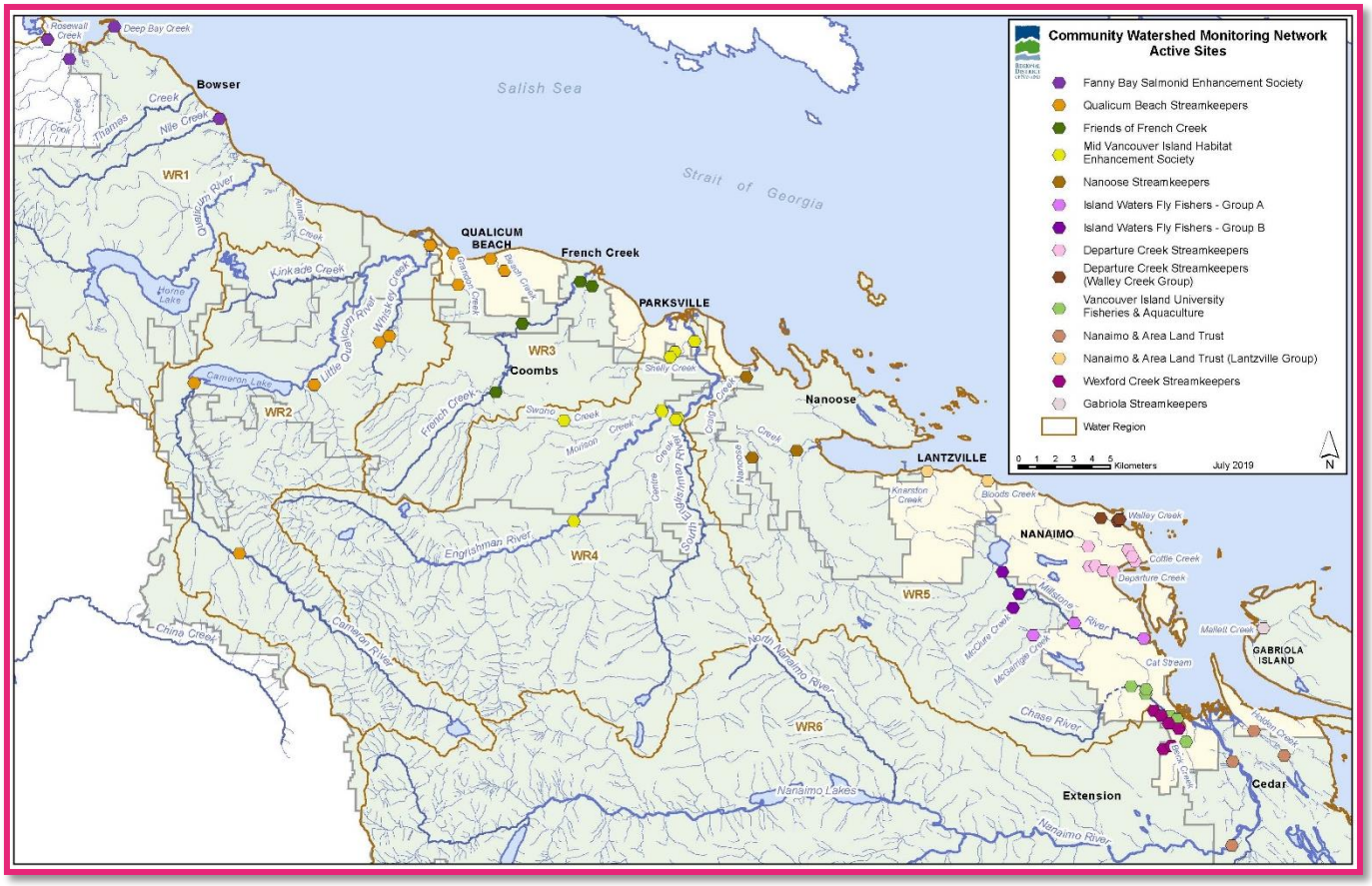
Community Watershed Monitoring Network 2019 Results by Water Region



Included in your Water Region package:

1. CWMN sample sites in Water Region (WR) 1
2. How to interpret a box plot
3. Box Plot Comparison 2019 data to previous years:
   Graphs displayed per parameter (Temperature, Dissolved Oxygen, Turbidity, Conductivity) per sample period (summer and fall)
4. FBSES CWMN map of sample sites
5. NCES CWMN map of sample sites

Water Region 1
sampled by:
Fanny Bay Salmonid Enhancement Society (FBSES)
&
Nile Creek Enhancement Society (NCES)

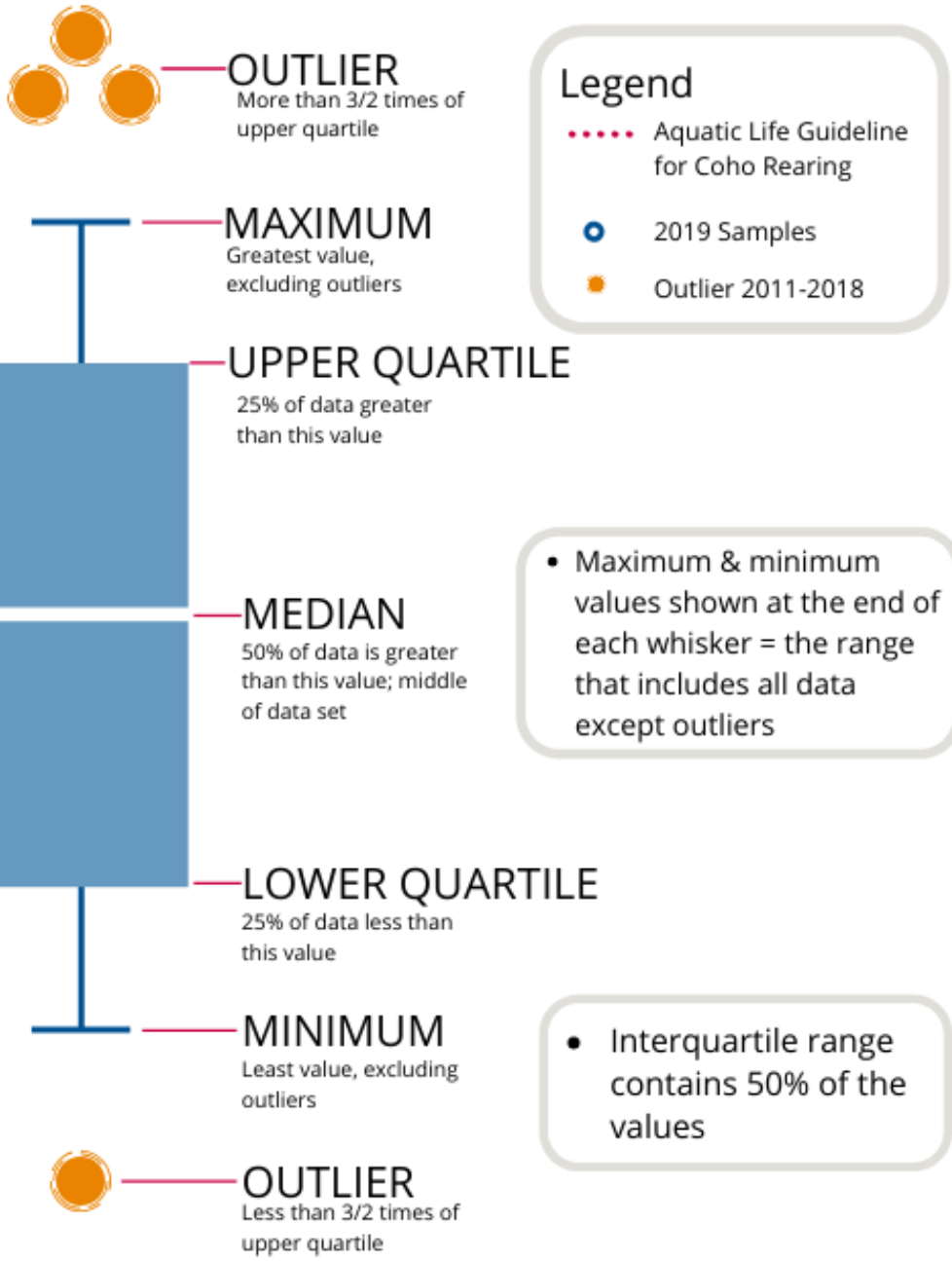
CWMN Sample Sites in WR 1:

The table below shows the group(s) and sites monitored, as well as the number of years and which years a site was sampled. The number of years is important to keep in mind when interpreting the box plots as the plot for each site may contain a slightly different temporal range.

Group	EMS ID	Geographic Description	Years Sampled*	Years Monitored
FBSES	E306374	Rosewall Creek @ Rosewall Creek Park	4	2016 - present
FBSES	E309086	Cook Creek at Old Island Hwy Connector	3	2017 - present
FBSES	E306375	Deep Bay Creek	4	2016 - present
FBSES	E286553	Nile Creek @ Rosepark Rd (50m u/s Old Island Hwy)	8	2011 - 2015; Not Monitored in 2016; 2017 - present

**The number of years sampled up to and including 2019.*

How to Interpret a Box Plot:

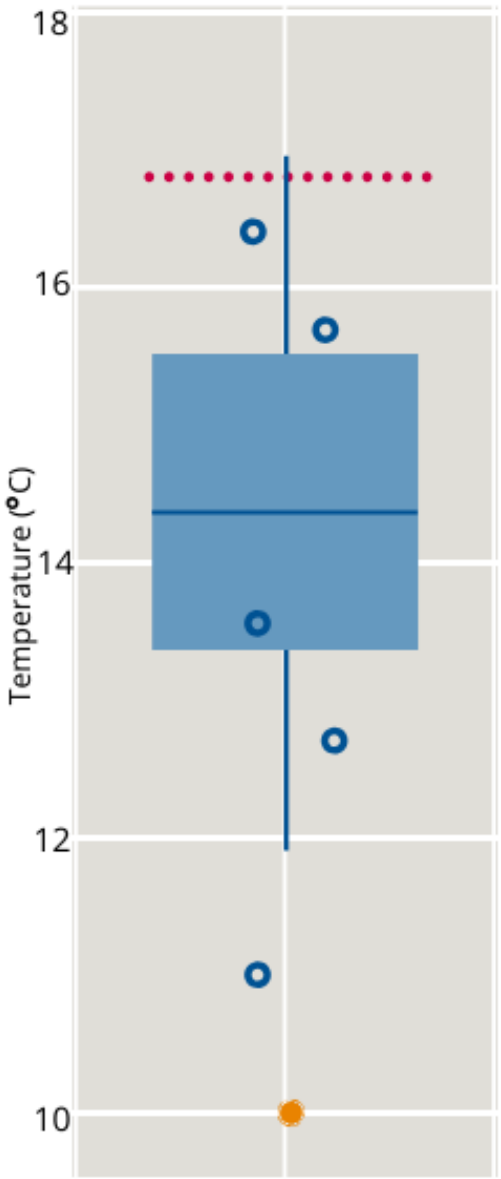


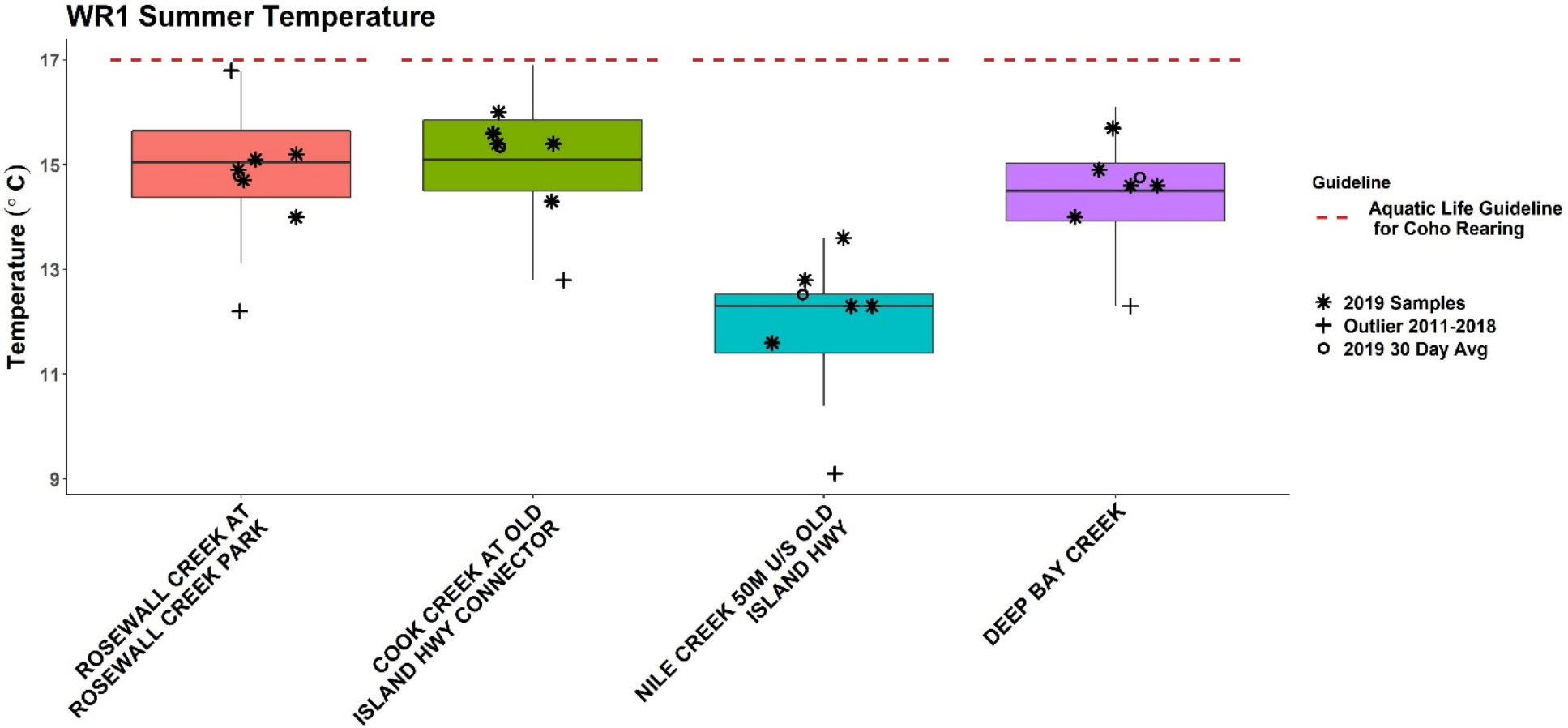
Legend

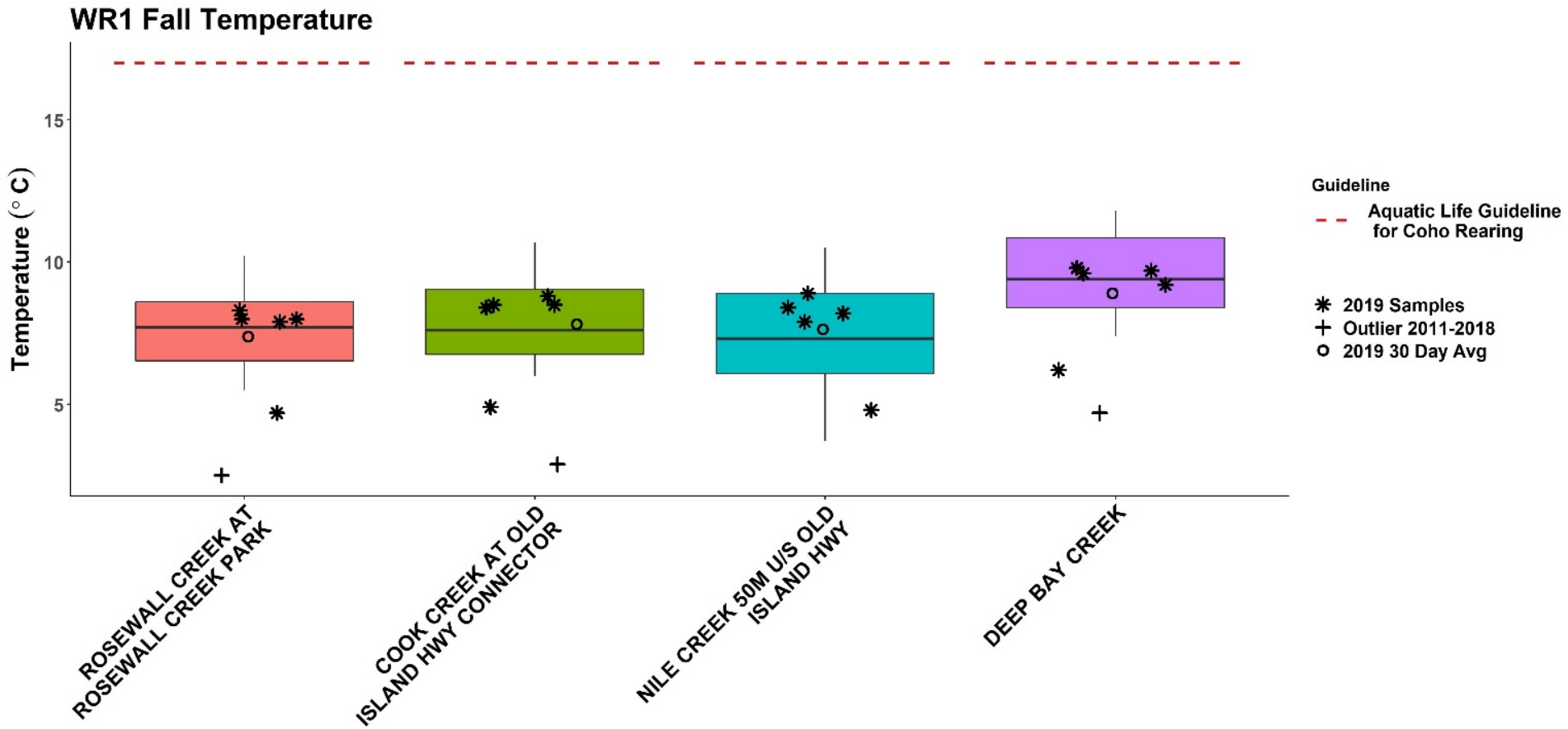
- Aquatic Life Guideline for Coho Rearing
- 2019 Samples
- Outlier 2011-2018

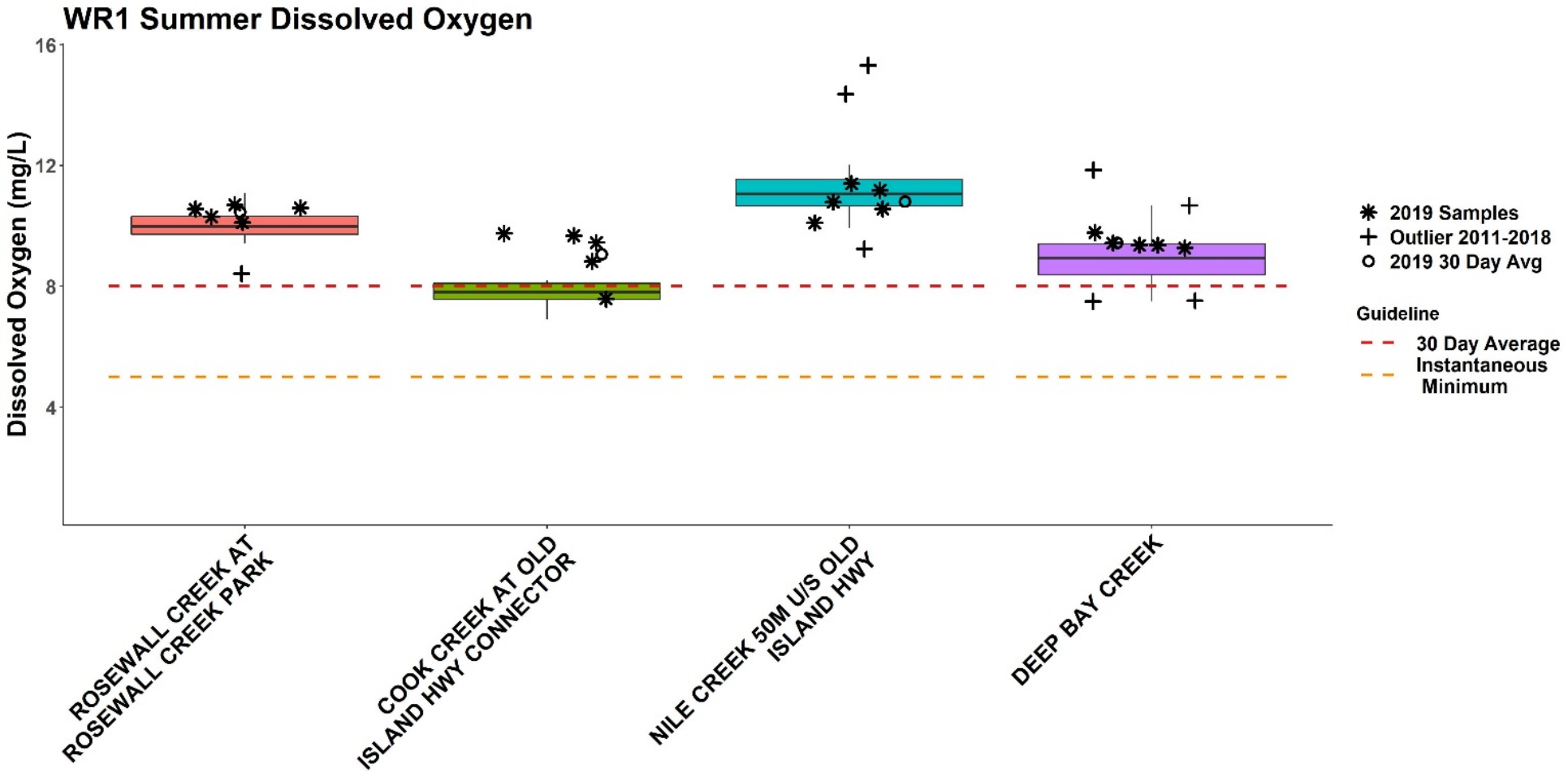
- Maximum & minimum values shown at the end of each whisker = the range that includes all data except outliers
- Interquartile range contains 50% of the values

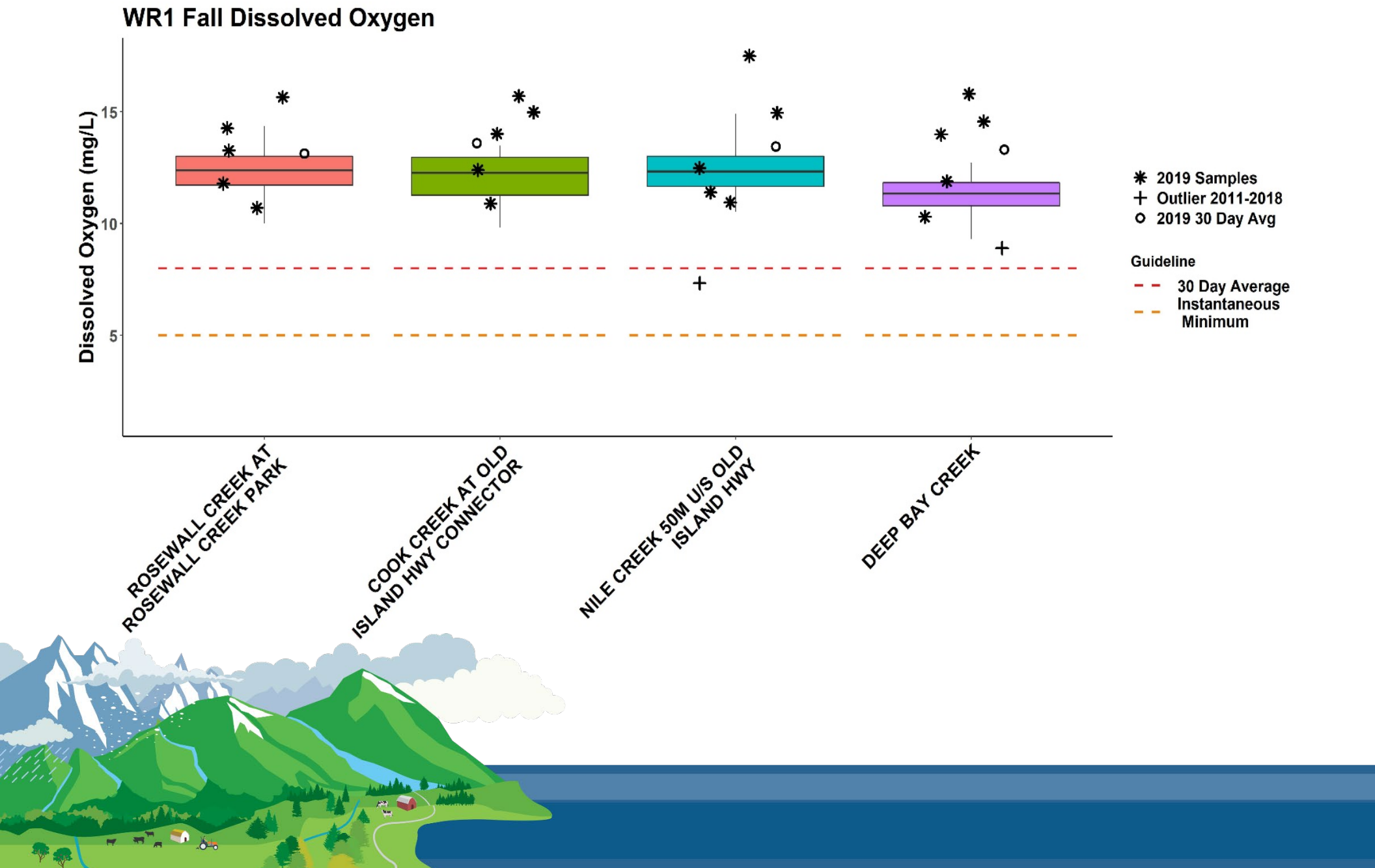
EXAMPLE

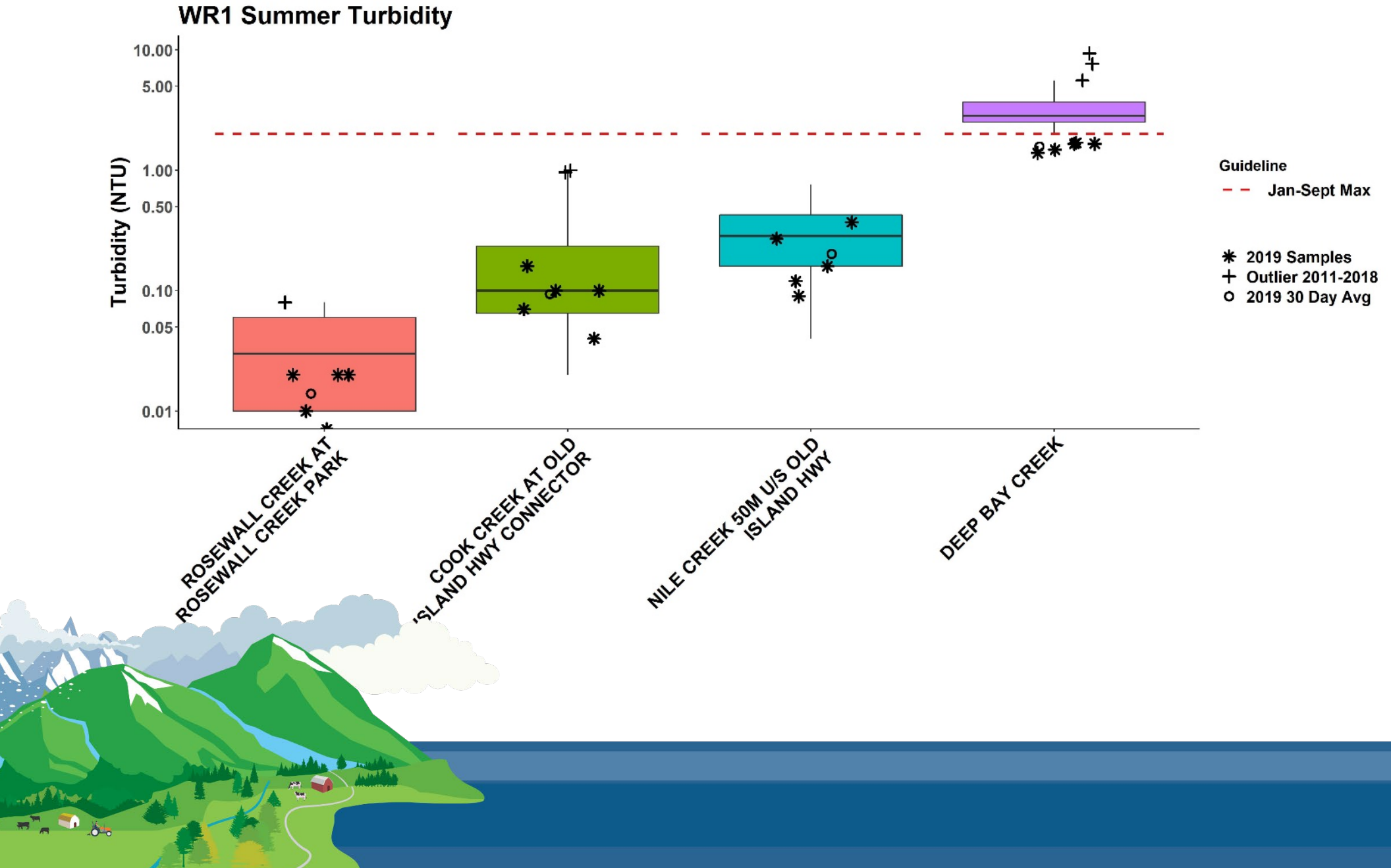


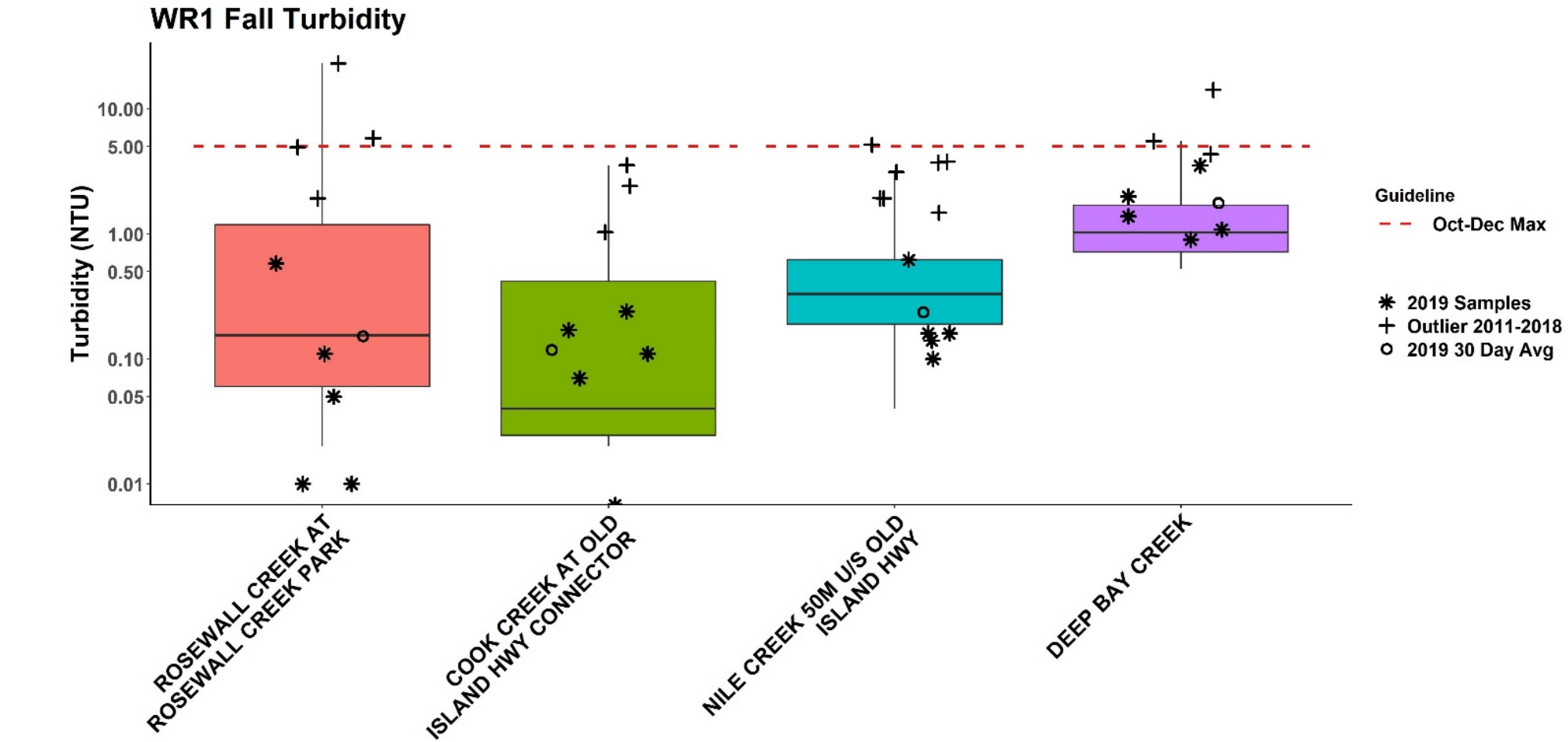

WR1 Summer Temperature
Temperature (° C)
17
15
13
11
9
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
Guideline
Aquatic Life Guideline for Coho Rearing
2019 Samples
Outlier 2011-2018
2019 30 Day Avg

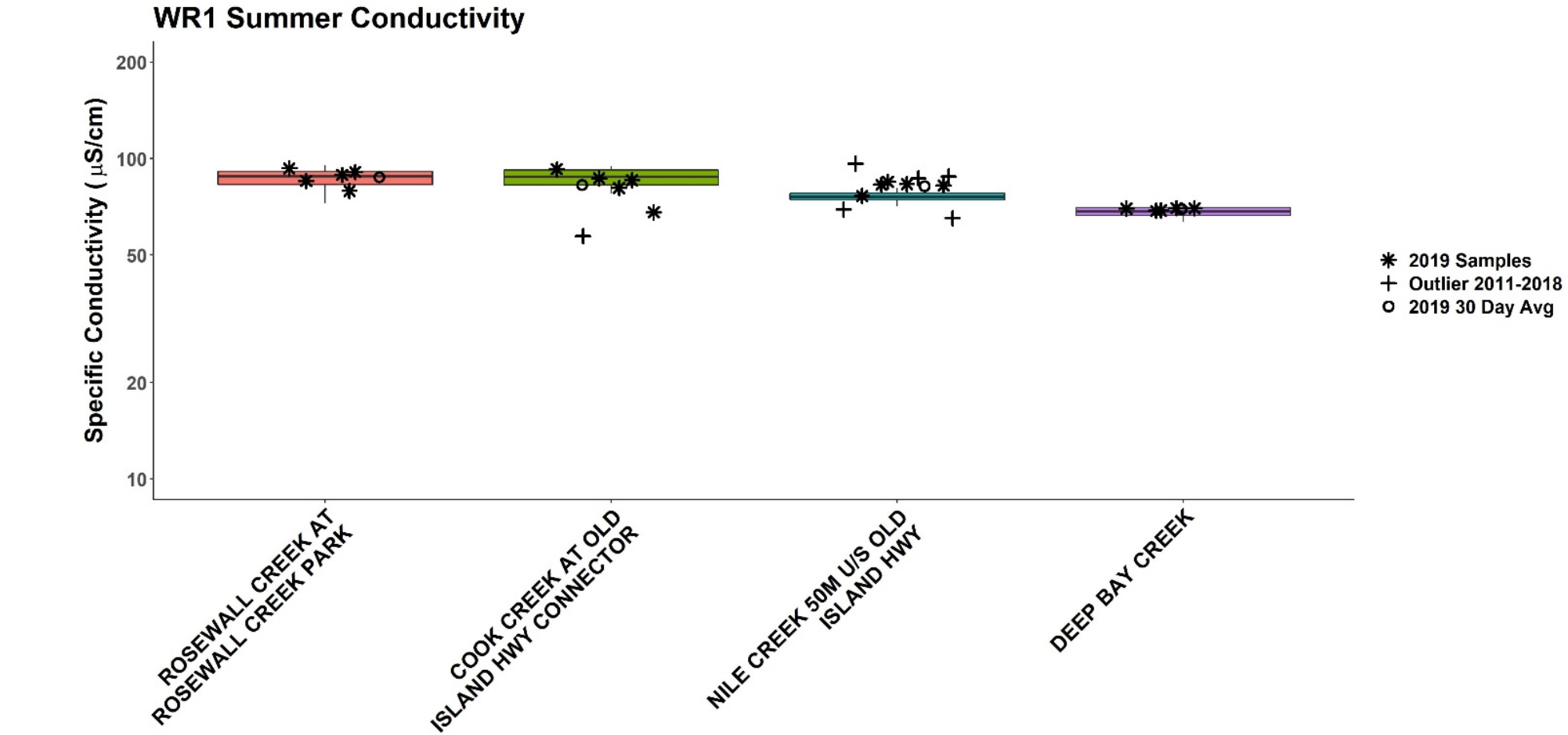

WR1 Fall Temperature
Temperature (° C)
15
10
5
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
Guideline
Aquatic Life Guideline for Coho Rearing
2019 Samples
Outlier 2011-2018
2019 30 Day Avg

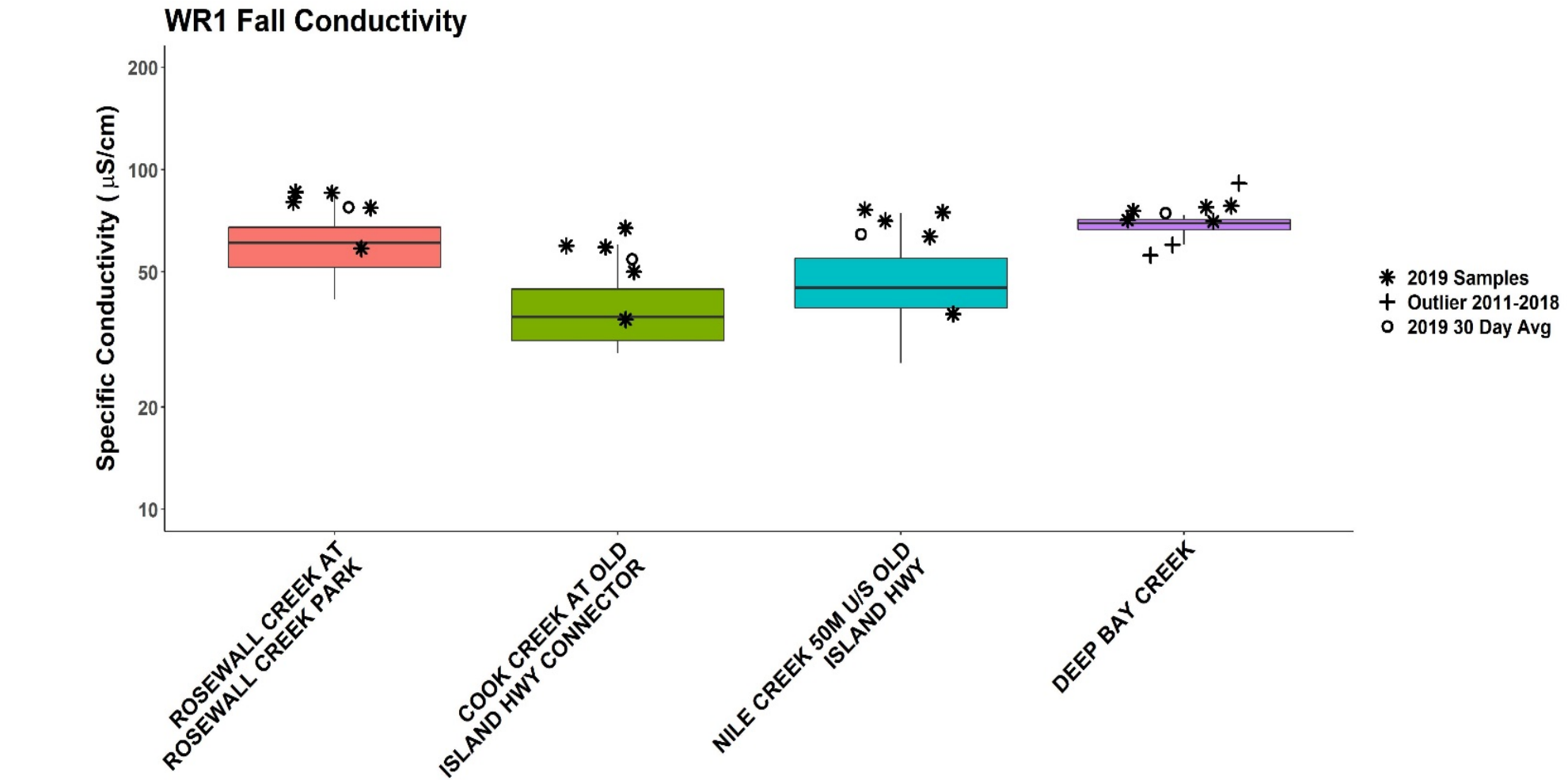

WR1 Summer Dissolved Oxygen
Dissolved Oxygen (mg/L)
16
12
8
4
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
2019 Samples
Outlier 2011-2018
2019 30 Day Avg
Guideline
30 Day Average
Instantaneous Minimum

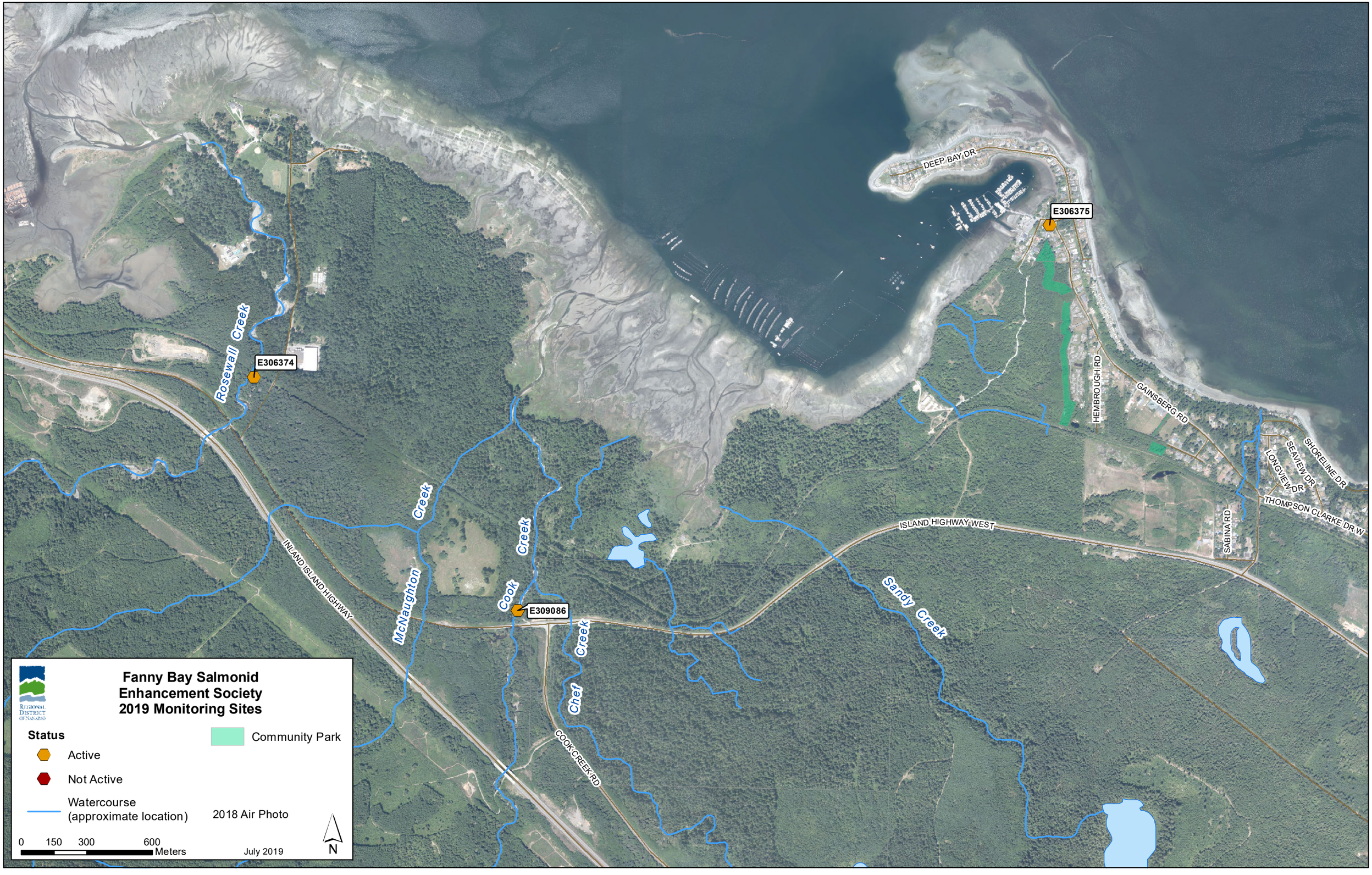

WR1 Fall Dissolved Oxygen
Dissolved Oxygen (mg/L)
15
10
5
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
2019 Samples
Outlier 2011-2018
2019 30 Day Avg
Guideline
30 Day Average
Instantaneous Minimum

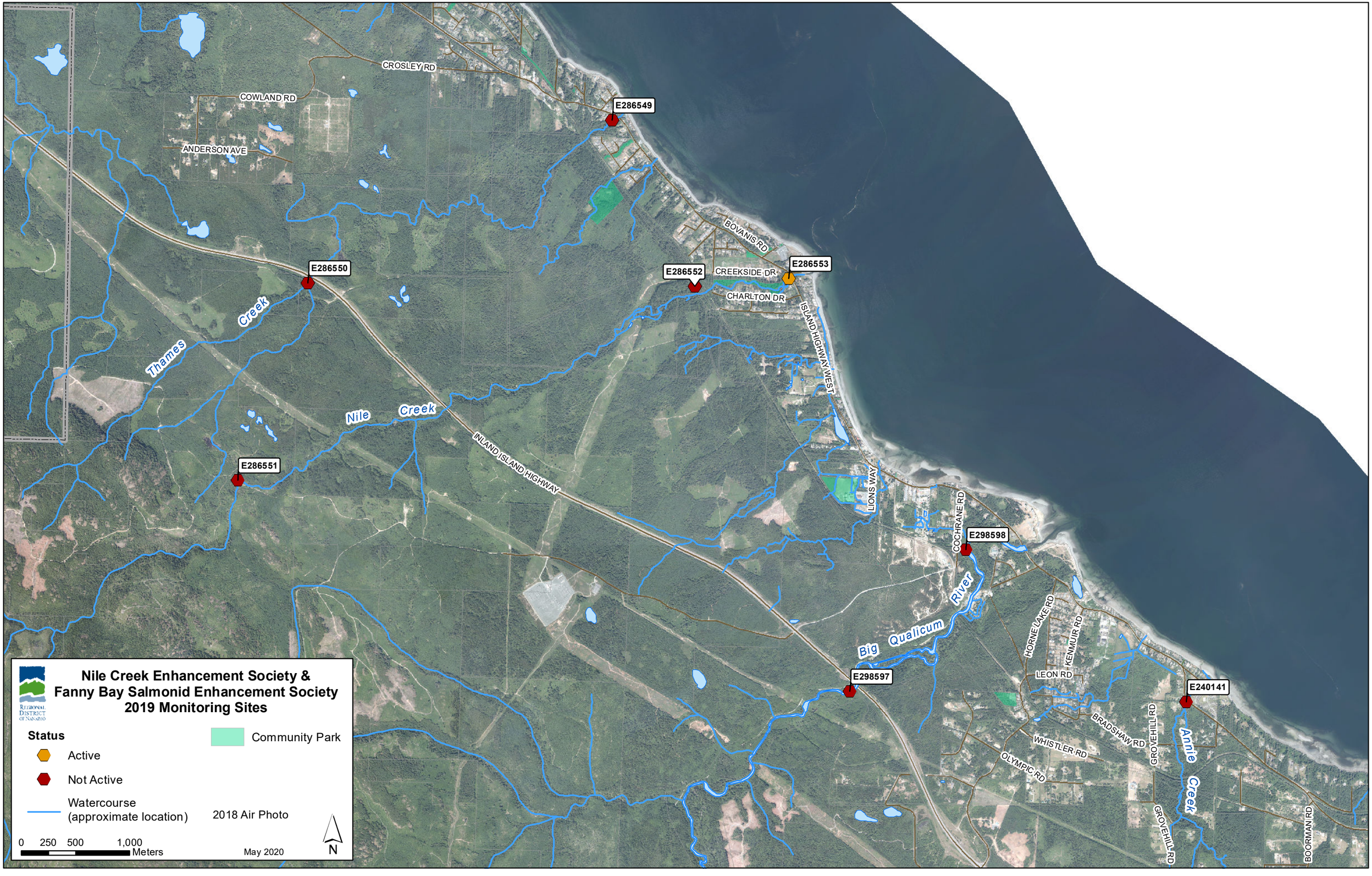

WR1 Summer Turbidity
Turbidity (NTU)
10.00
5.00
1.00
0.50
0.10
0.05
0.01
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
Guideline
Jan-Sept Max
2019 Samples
Outlier 2011-2018
2019 30 Day Avg


WR1 Fall Turbidity
Turbidity (NTU)
10.00
5.00
1.00
0.50
0.10
0.05
0.01
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
Guideline
Oct-Dec Max
2019 Samples
Outlier 2011-2018
2019 30 Day Avg


WR1 Summer Conductivity
Specific Conductivity (µS/cm)
200
100
50
20
10
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
2019 Samples
Outlier 2011-2018
2019 30 Day Avg


WR1 Fall Conductivity
Specific Conductivity (µS/cm)
200
100
50
20
10
ROSEWALL CREEK AT ROSEWALL CREEK PARK
COOK CREEK AT OLD ISLAND HWY CONNECTOR
NILE CREEK 50M U/S OLD ISLAND HWY
DEEP BAY CREEK
2019 Samples
Outlier 2011-2018
2019 30 Day Avg


E306375
E306374
E309086
Rosewall Creek
McNaughton Creek
Cook Creek
Chef Creek
Sandy Creek
DEEP BAY DR
HEMBROUGH RD
GAINSBERG RD
SHORELINE DR
SEAVIEW DR
LONGVIEW DR
THOMPSON CLARKE DR W
SABINA RD
ISLAND HIGHWAY WEST
INLAND ISLAND HIGHWAY
COOK CREEK RD
Fanny Bay Salmonid Enhancement Society 2019 Monitoring Sites
Status
Active
Not Active
Watercourse (approximate location)
Community Park
2018 Air Photo
0 150 300 600 Meters
July 2019
N


CROSLEY RD
COWLAND RD
ANDERSON AVE
E286549
BOVANIS RD
E286552
CREEKSIDE DR
E286553
CHARLTON DR
ISLAND HIGHWAY WEST
E286550
Thames Creek
Nile Creek
INLAND ISLAND HIGHWAY
E286551
LIONS WAY
COCHRANE RD
E298598
Big Qualicum River
HORNE LAKE RD
KENMUIR RD
LEON RD
E298597
E240141
BRADSHAW RD
GROVEHILL RD
WHISTLER RD
OLYMPIC RD
Annie Creek
BOORMAN RD
Nile Creek Enhancement Society &
Fanny Bay Salmonid Enhancement Society
2019 Monitoring Sites
Regional District of Nanaimo
Status
Active
Not Active
Watercourse
(approximate location)
Community Park
2018 Air Photo
0 250 500 1,000
Meters
May 2020
N