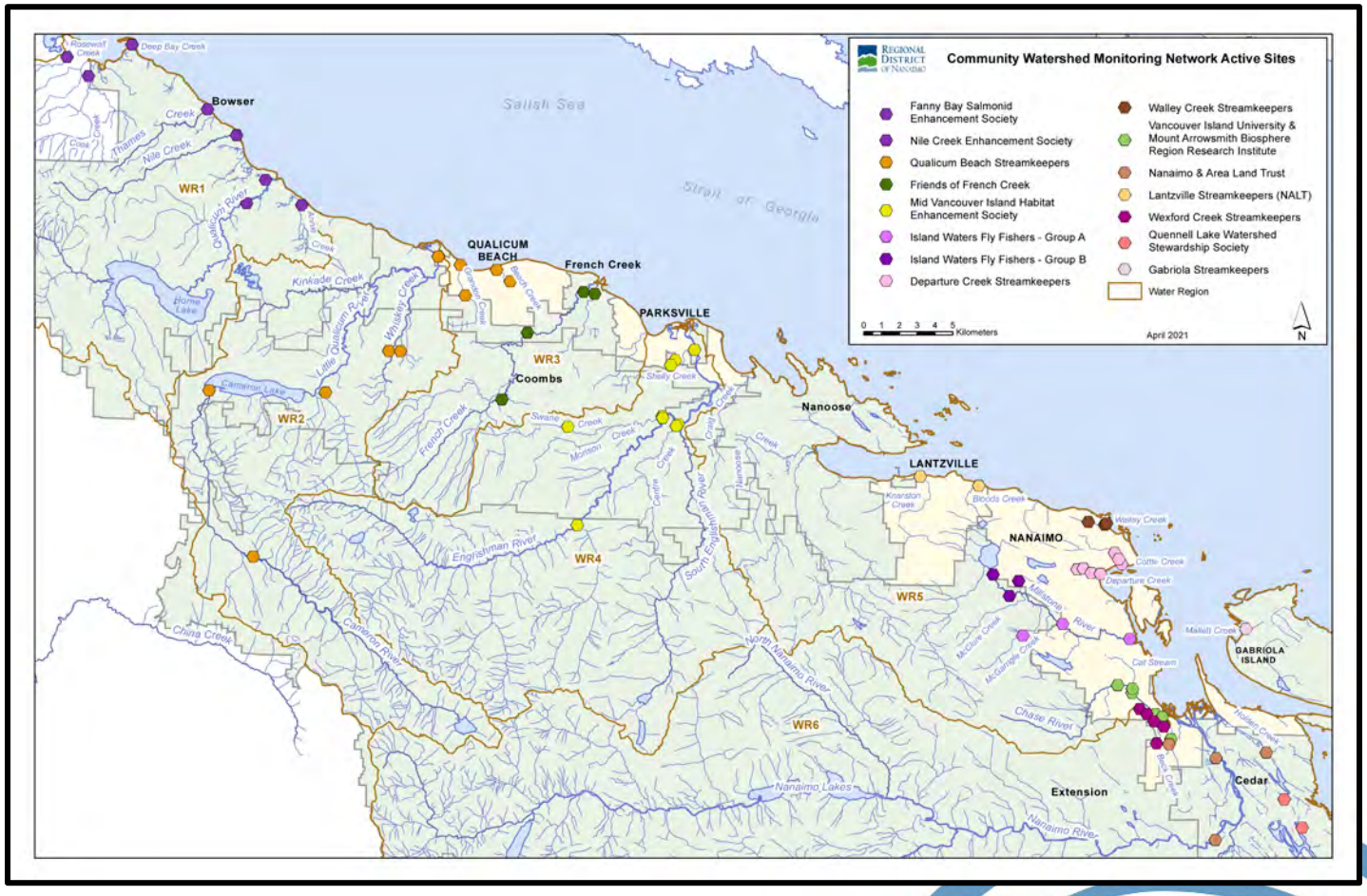
Community Watershed Monitoring Network
2021 Results by Water Region



Included in Water Region (WR) 6 package:

1. CWMN WR6 sample sites
2. How to interpret a box plot
3. Box Plot Comparison – 2021 data to previous years: *displayed by parameter (Temperature, Dissolved Oxygen, Turbidity, Conductivity) & sample period (summer, fall)*
4. WxCS CWMN map of sample sites
5. NALT CWMN map of sample sites
6. VIU MABRRI CWMN map of sample sites
7. QLWSS CWMN map of sample sites

Water Region 6
sampled by:
Wexford Creek Streamkeepers (WxCS)
&
Nanaimo Area Land Trust (NALT)
&
Mount Arrowsmith Biosphere Region Research Institute at VIU (VIU MABRRI)
&
Quennell Lake Watershed Stewardship Society (QLWSS)

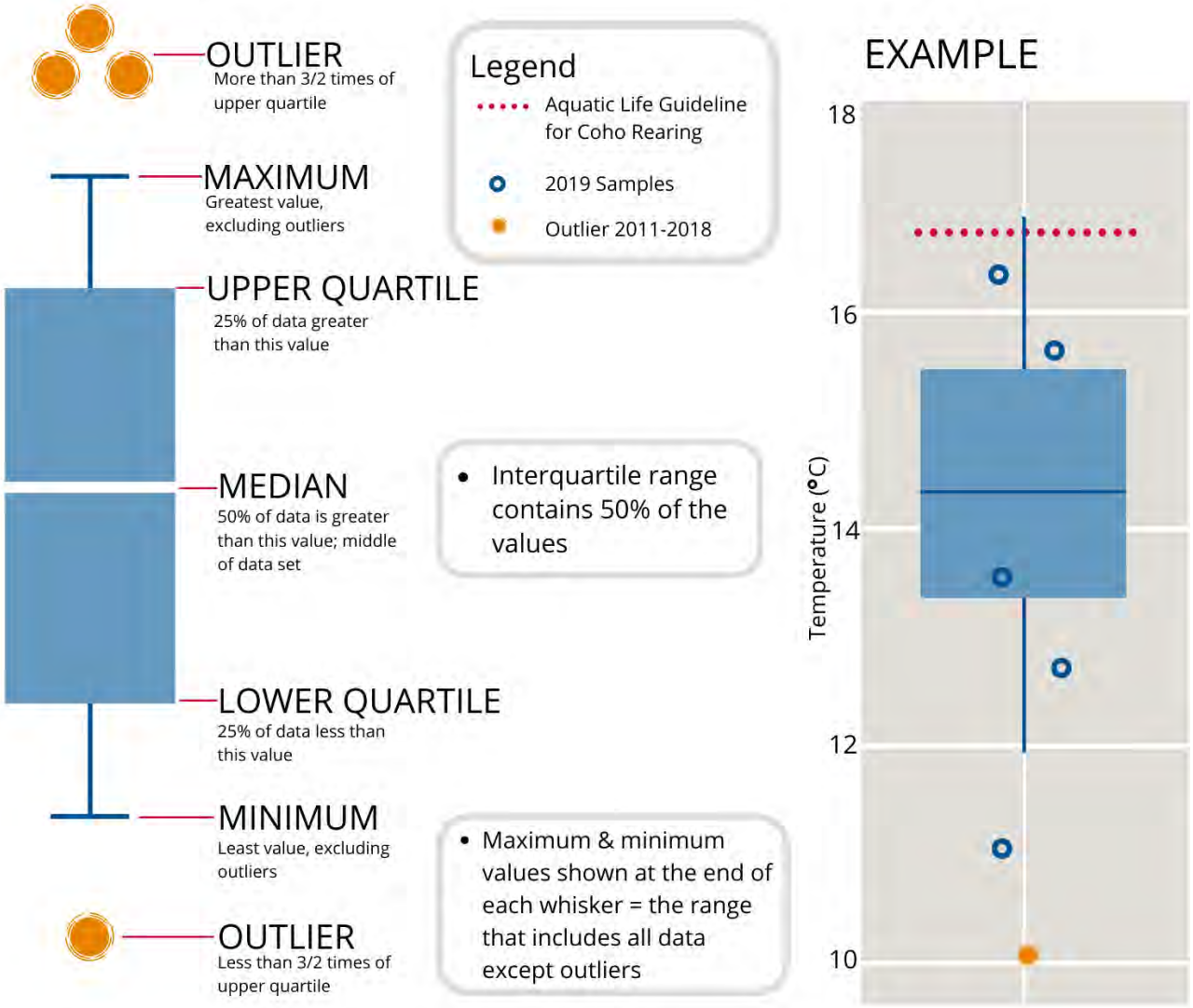
WR6 CWMN Sample Sites:

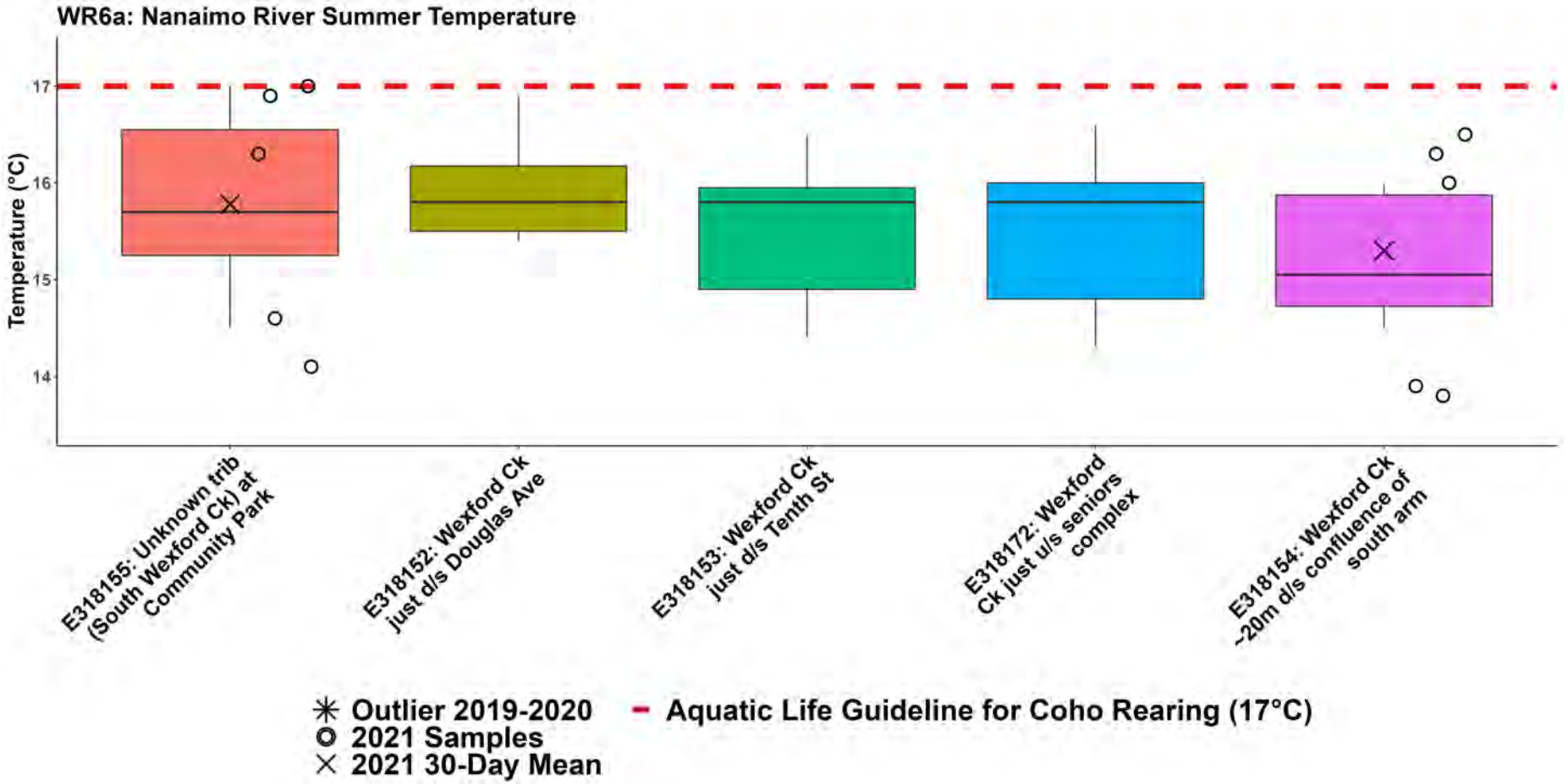
The table below shows the sites monitored by each of the streamkeeper organizations, as well as the number of years and which years a site was sampled. The number of years is important to keep in mind when interpreting the box plots as the plot for each site may contain a slightly different temporal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

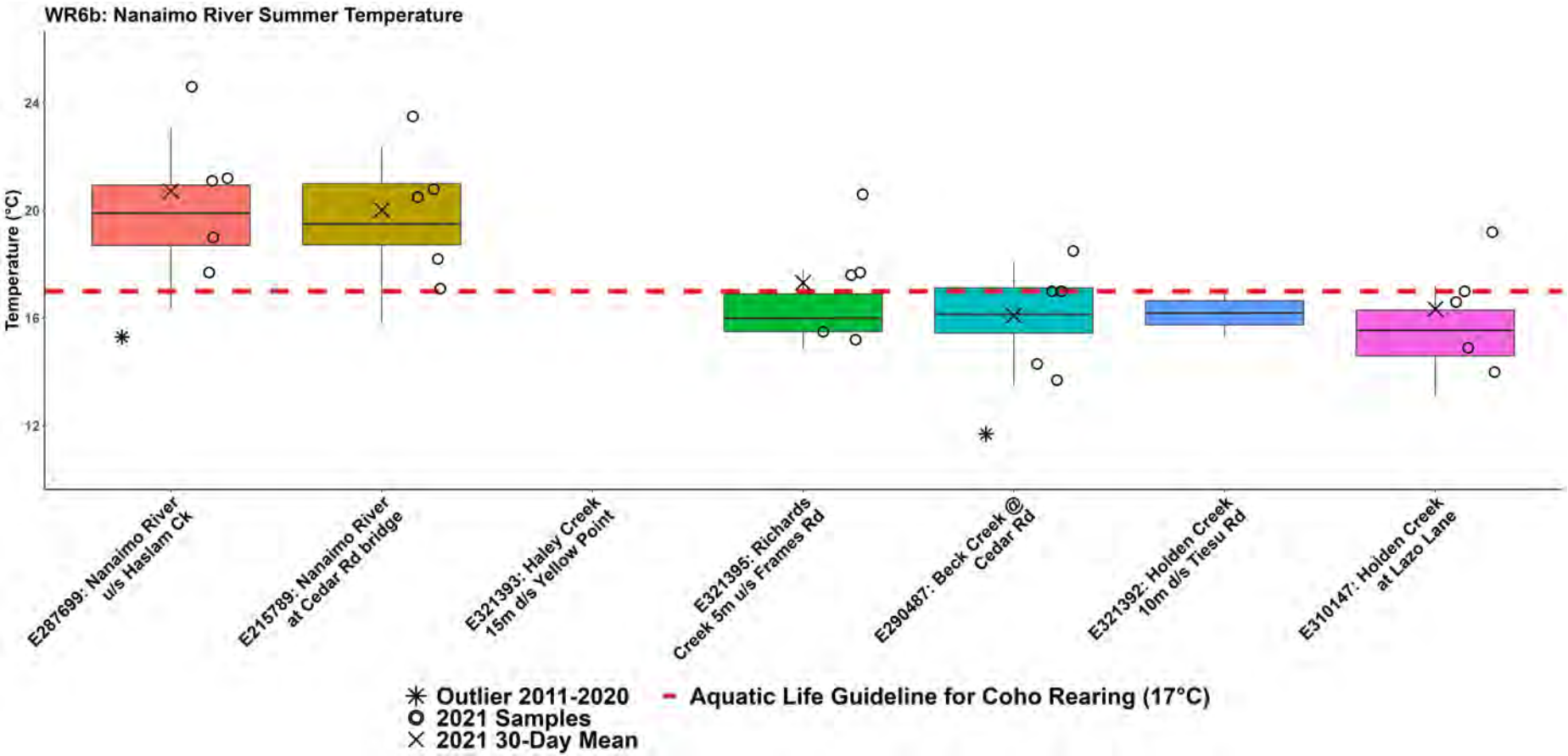
Group	EMS ID	Geographic Description	Years Sampled	Years Monitored
WxCS	E318155	South Wexford Ck at Community Park (Glenford Pl)	3	2019 - present
WxCS	E318152	Wexford Ck just d/s Douglas Ave	3	2019 - present
WxCS	E318172	Wexford Ck just u/s seniors complex	3	2019 - present
WxCS	E318153	Wexford Ck just d/s Tenth St	3	2019 - present
WxCS	E318154	Wexford Ck ~20m d/s confluence of N and main arm	3	2019 - present
NALT	E287699	Nanaimo River u/s Haslam Ck ~500m d/s hwy bridge	11	2011 - present
NALT	E215789	Nanaimo River at Cedar Rd bridge	8	2014 - present
NALT	E321395	Richards Creek 5m u/s Frames Rd	2	2020 - present
VIU MABRRI	E290487	Beck Creek @ Cedar Rd	10	2012 - present
QLWSS	E321392	Holden Creek 10m d/s Tiesu Rd	2	2020 - present
NALT	E310147	Holden Creek off East side of Lazo Lane	4.5	2017 – present*
QLWSS	E321393	Unknown Tributary (Haley Creek) 15m d/s Yellow Point Rd	2	2020 - present

**Sampled in 2017 fall period only.*

How to Interpret a Box Plot:

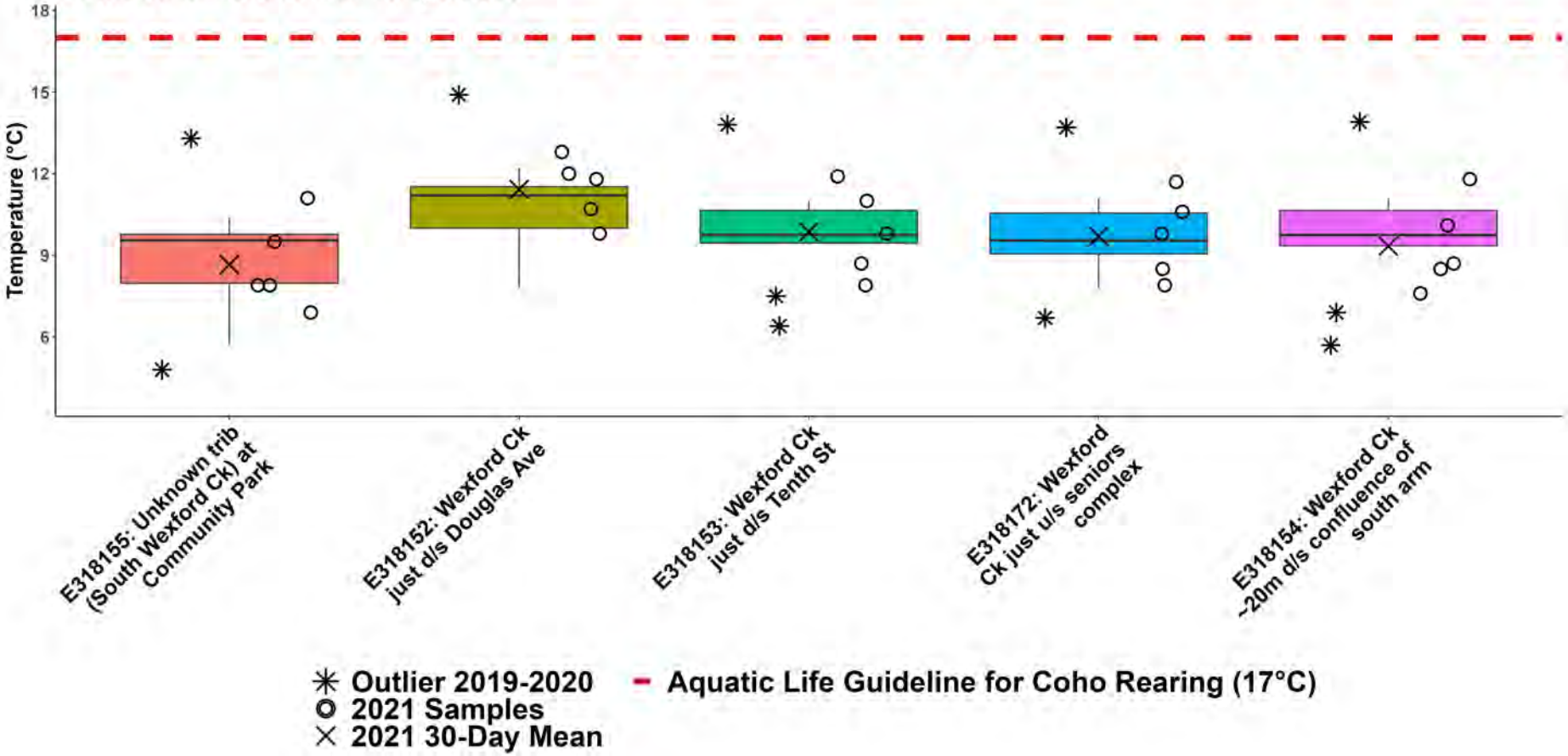



WR6a: Nanaimo River Summer Temperature
Temperature (°C)
17
16
15
14
E318155: Unknown trib (South Wexford Ck) at Community Park
E318152: Wexford Ck just d/s Douglas Ave
E318153: Wexford Ck just d/s Tenth St
E318172: Wexford Ck just u/s seniors complex
E318154: Wexford Ck ~20m d/s confluence of south arm
Outlier 2019-2020
2021 Samples
2021 30-Day Mean
Aquatic Life Guideline for Coho Rearing (17°C)



Created for the RDN's Community Watershed Monitoring Network using 2021 data collected by local Streamkeepers. Charts produced by Ecoscape Environmental Consultants Ltd.
Question? Call 250-390-6560 or email watermonitoring@rdn.bc.ca

WR6a: Nanaimo River Fall Temperature



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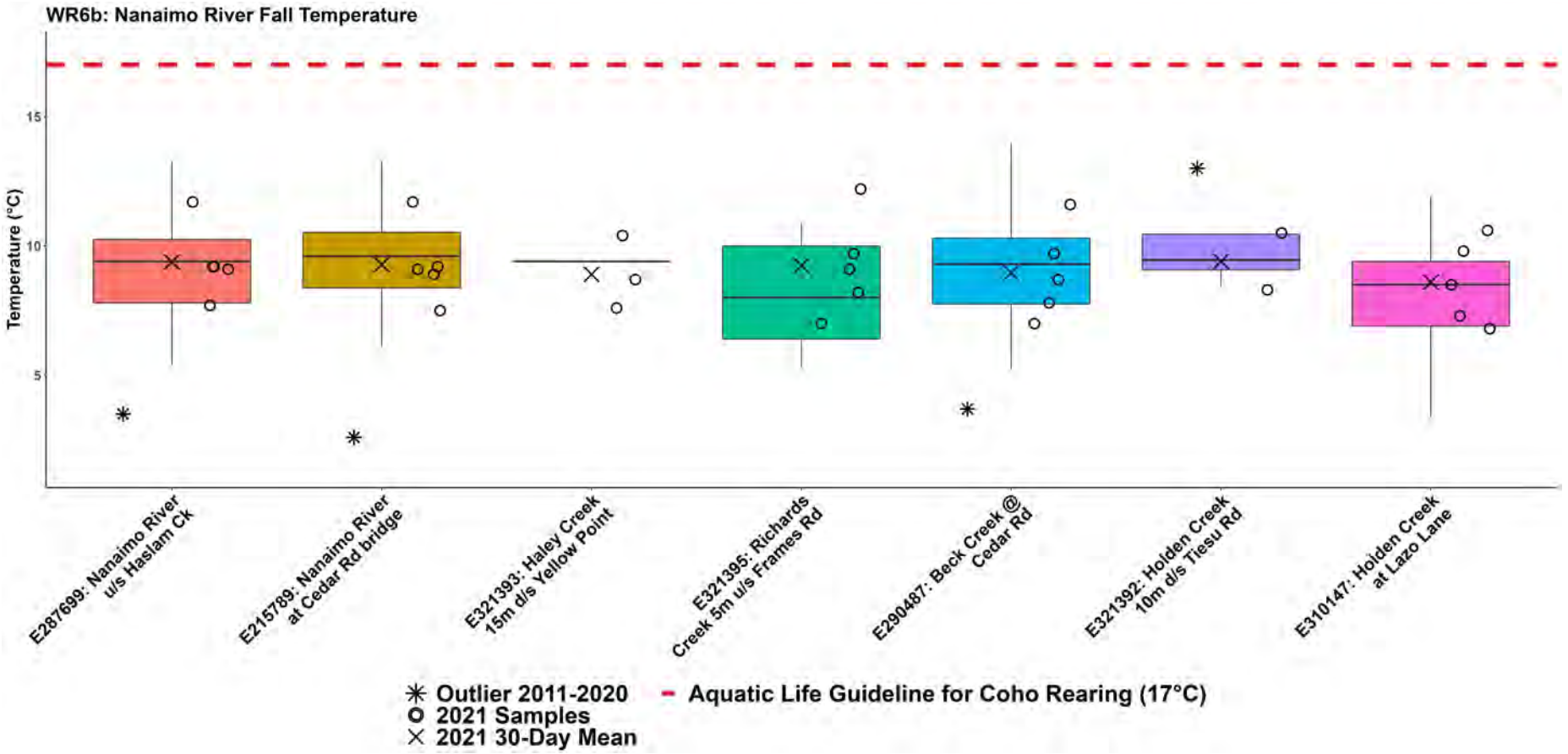

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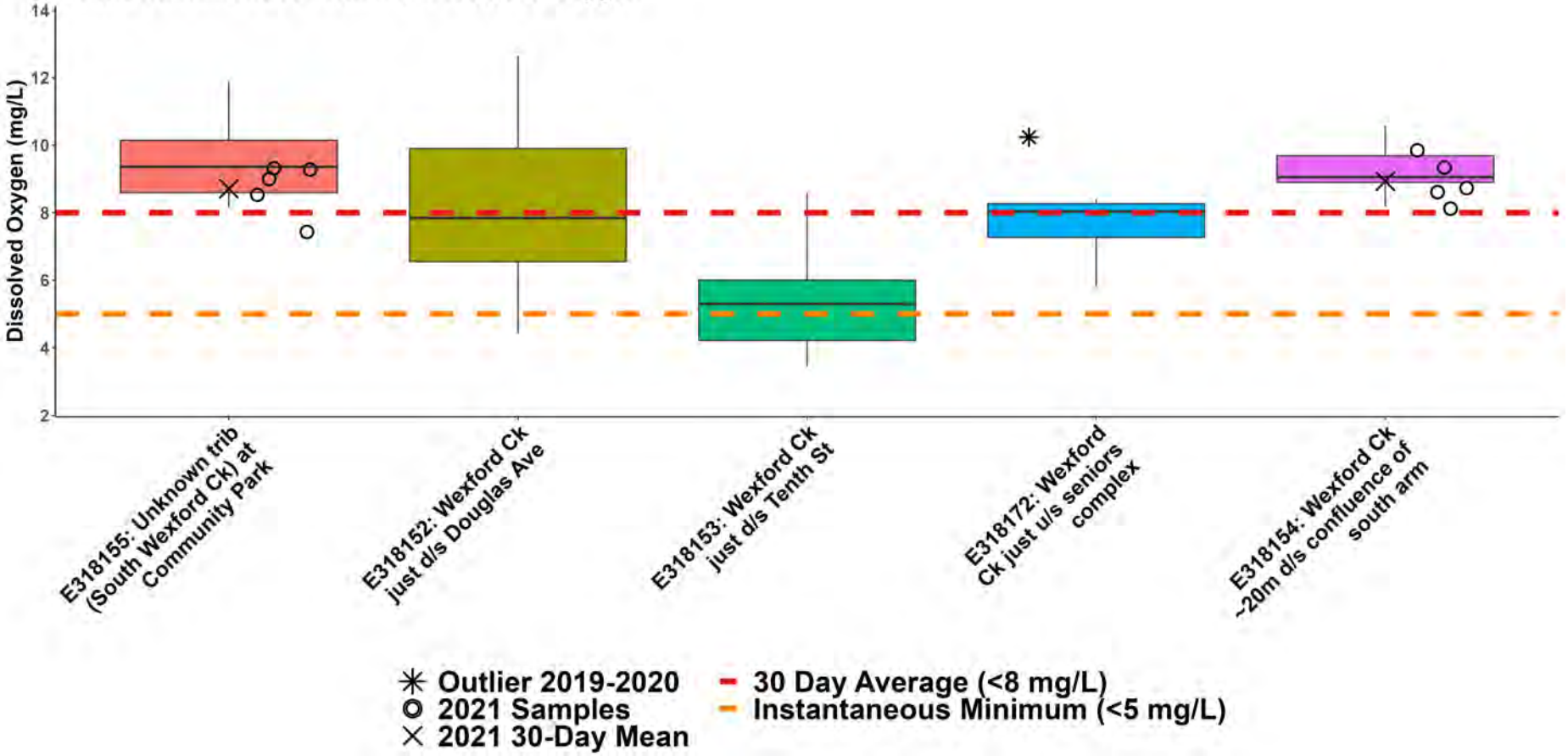
WR6a: Nanaimo River Summer Dissolved Oxygen



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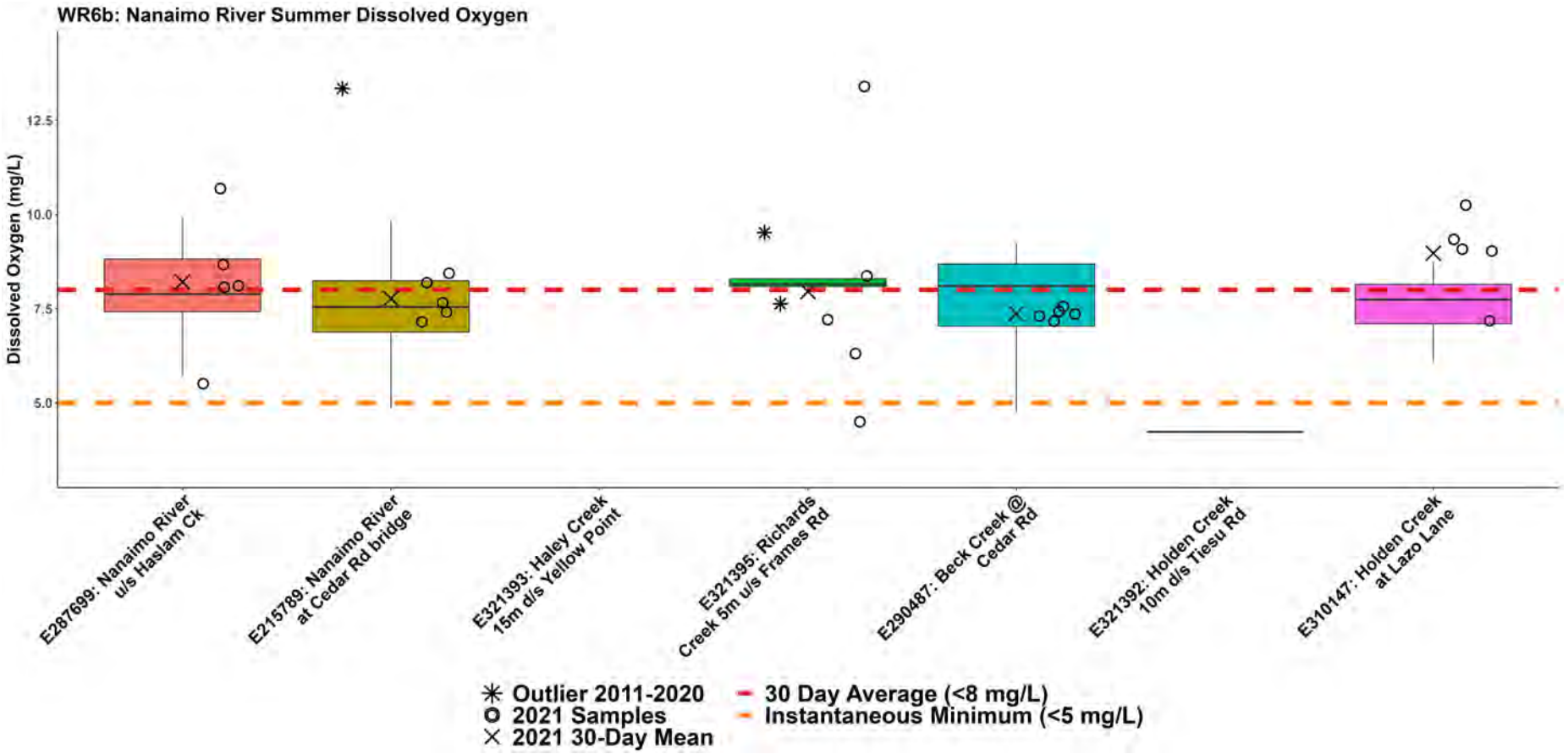

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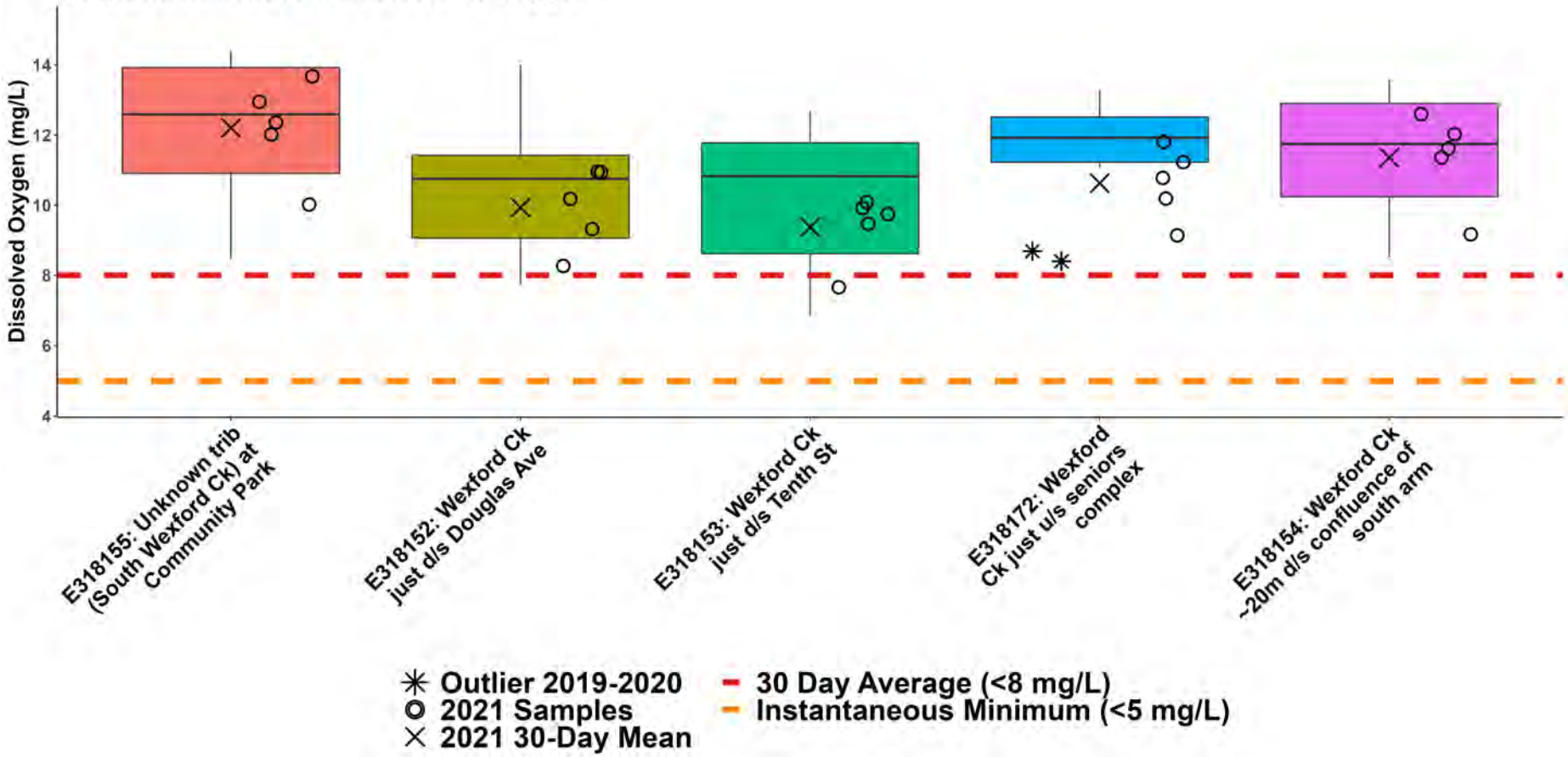
WR6a: Nanaimo River Fall Dissolved Oxygen



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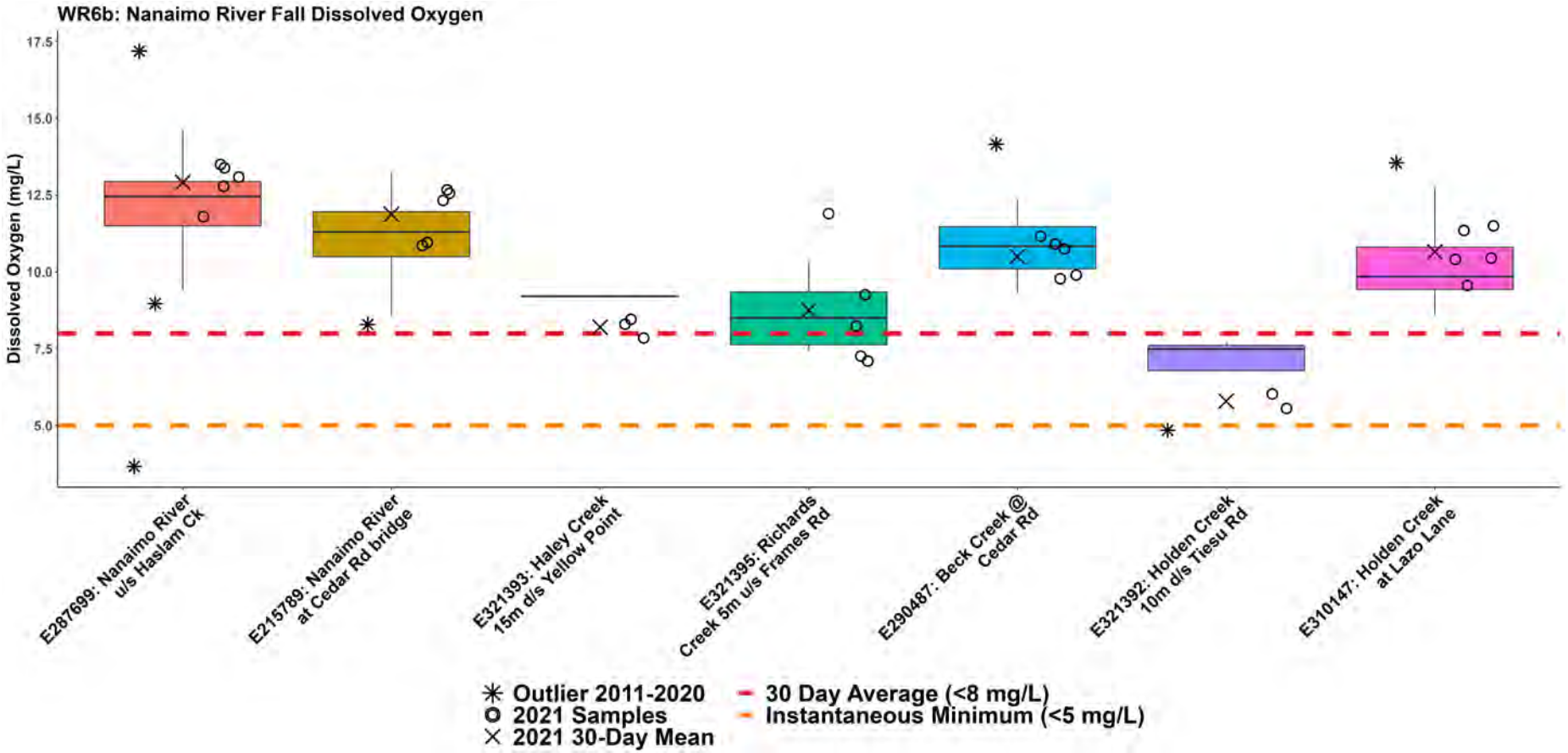

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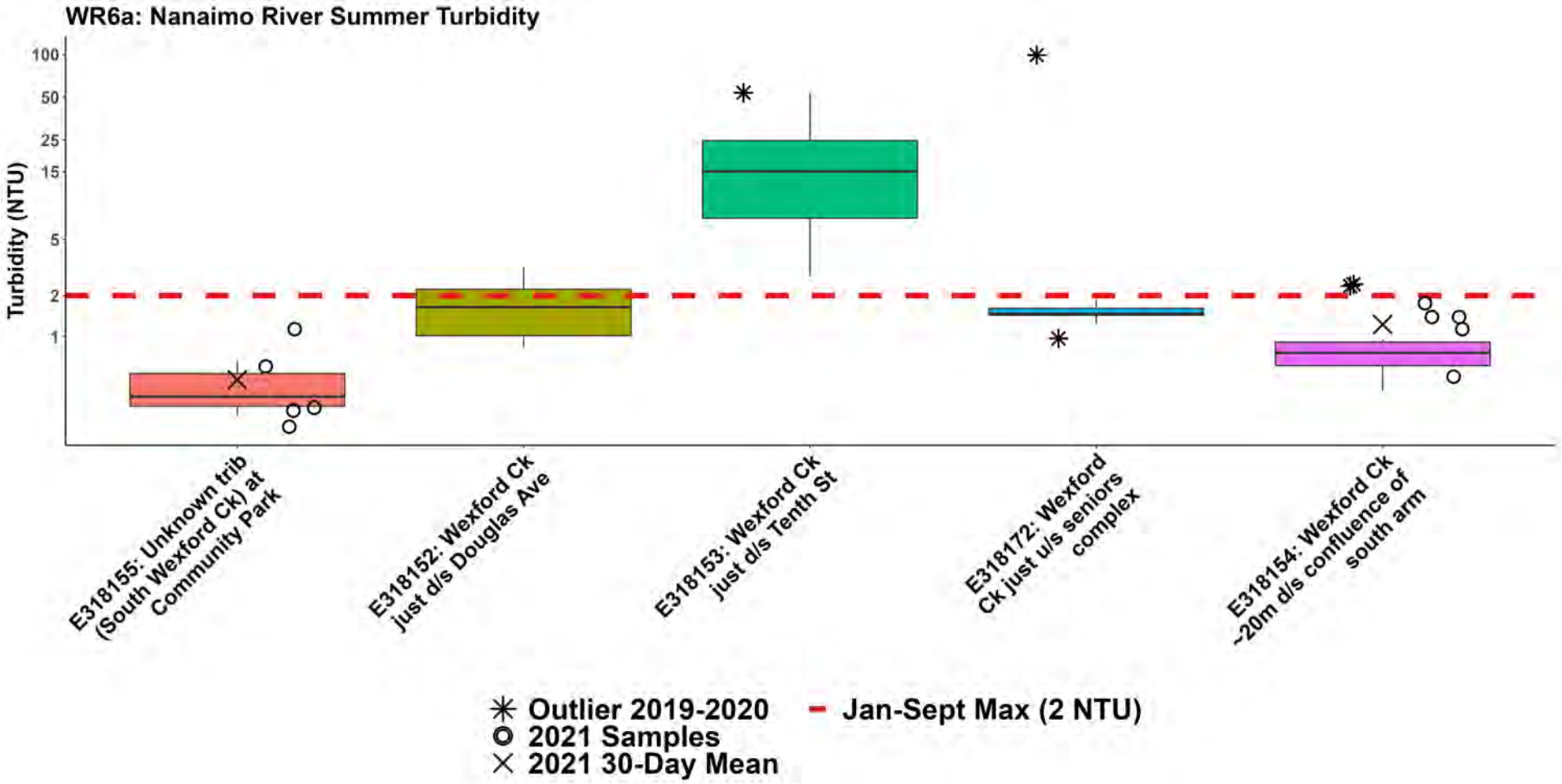

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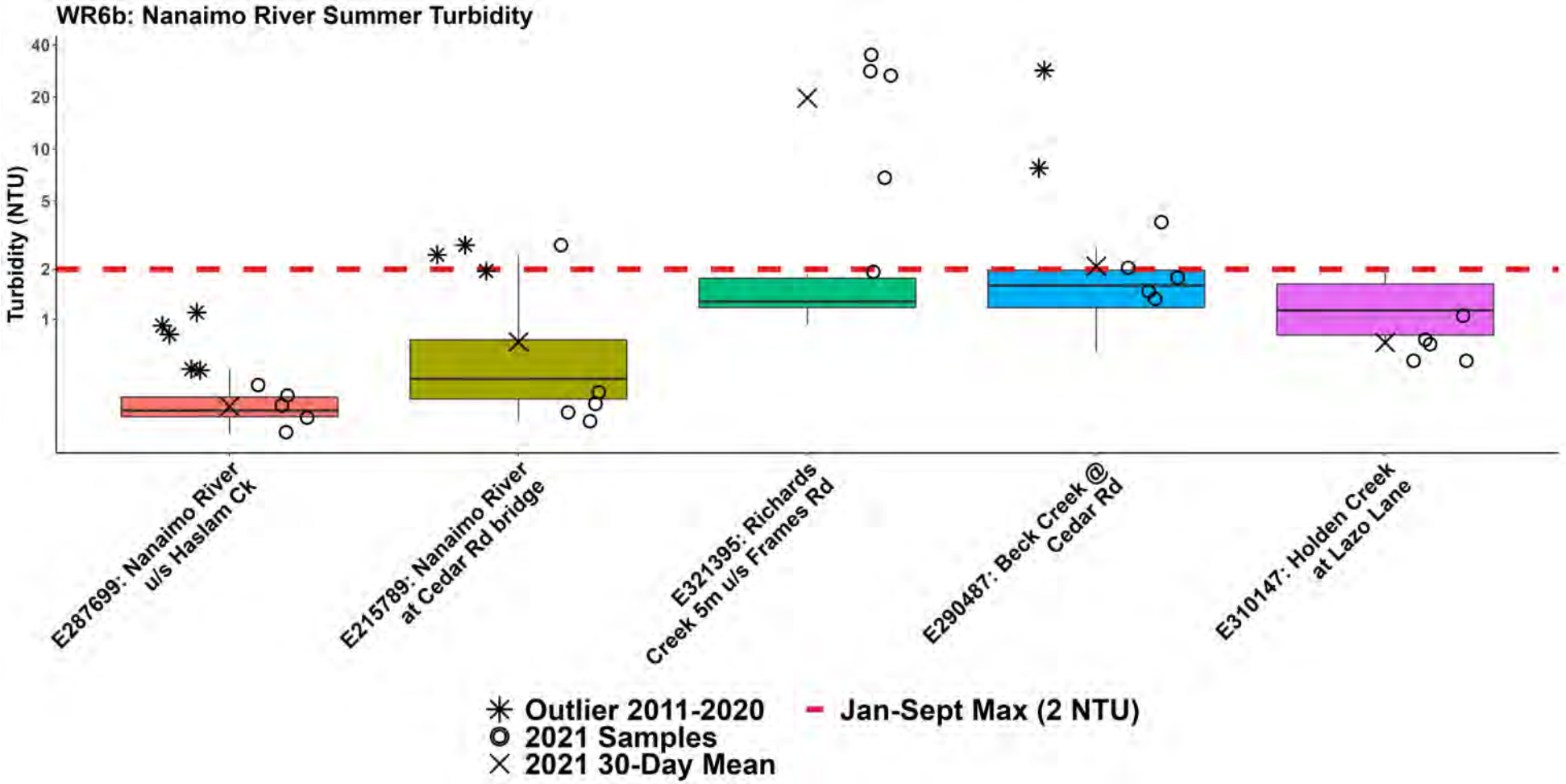

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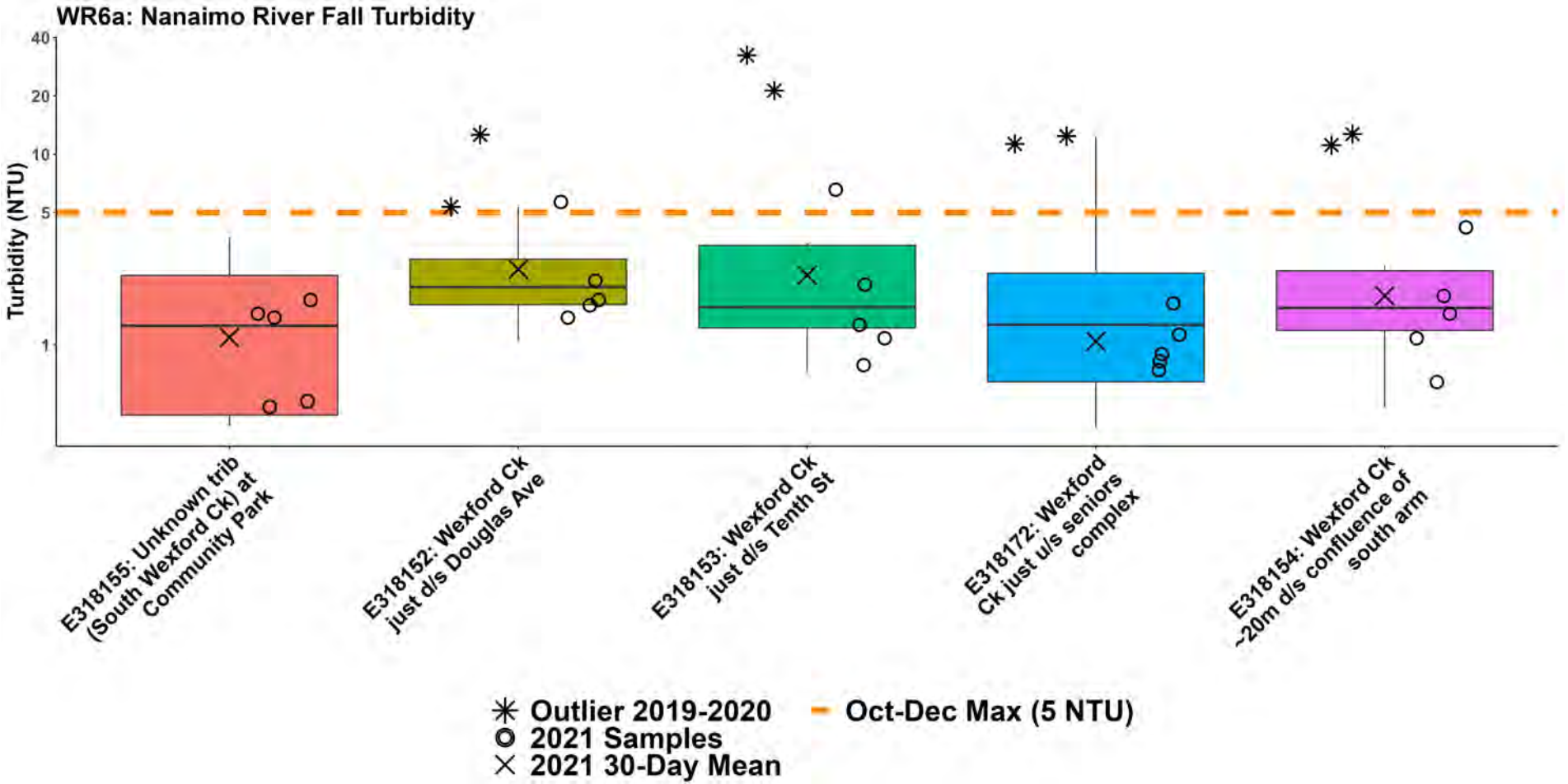

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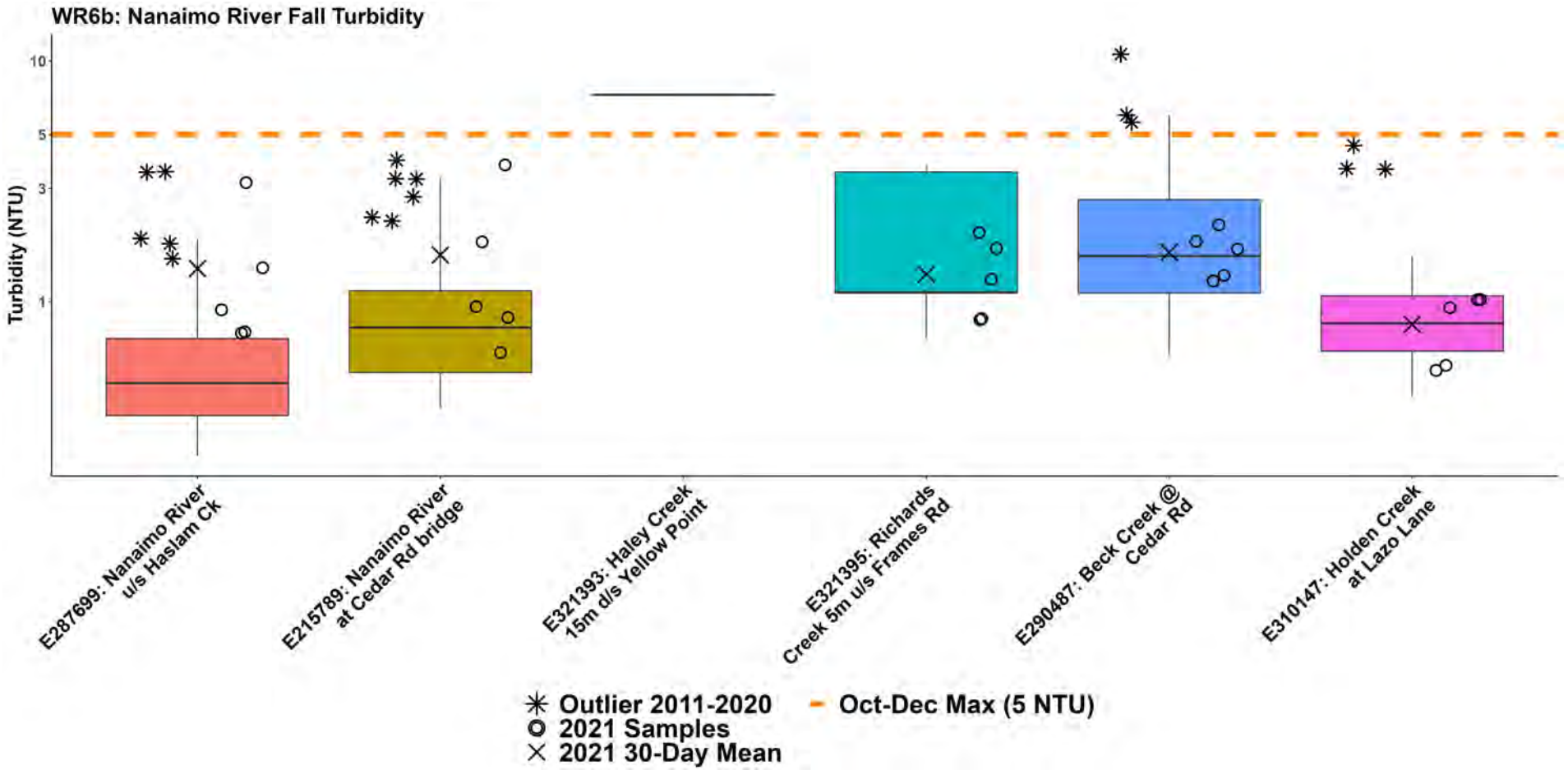

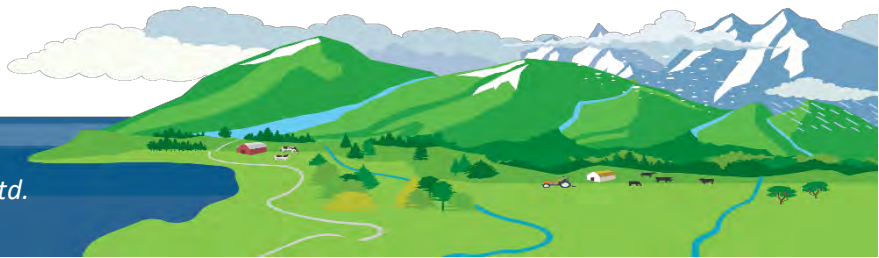

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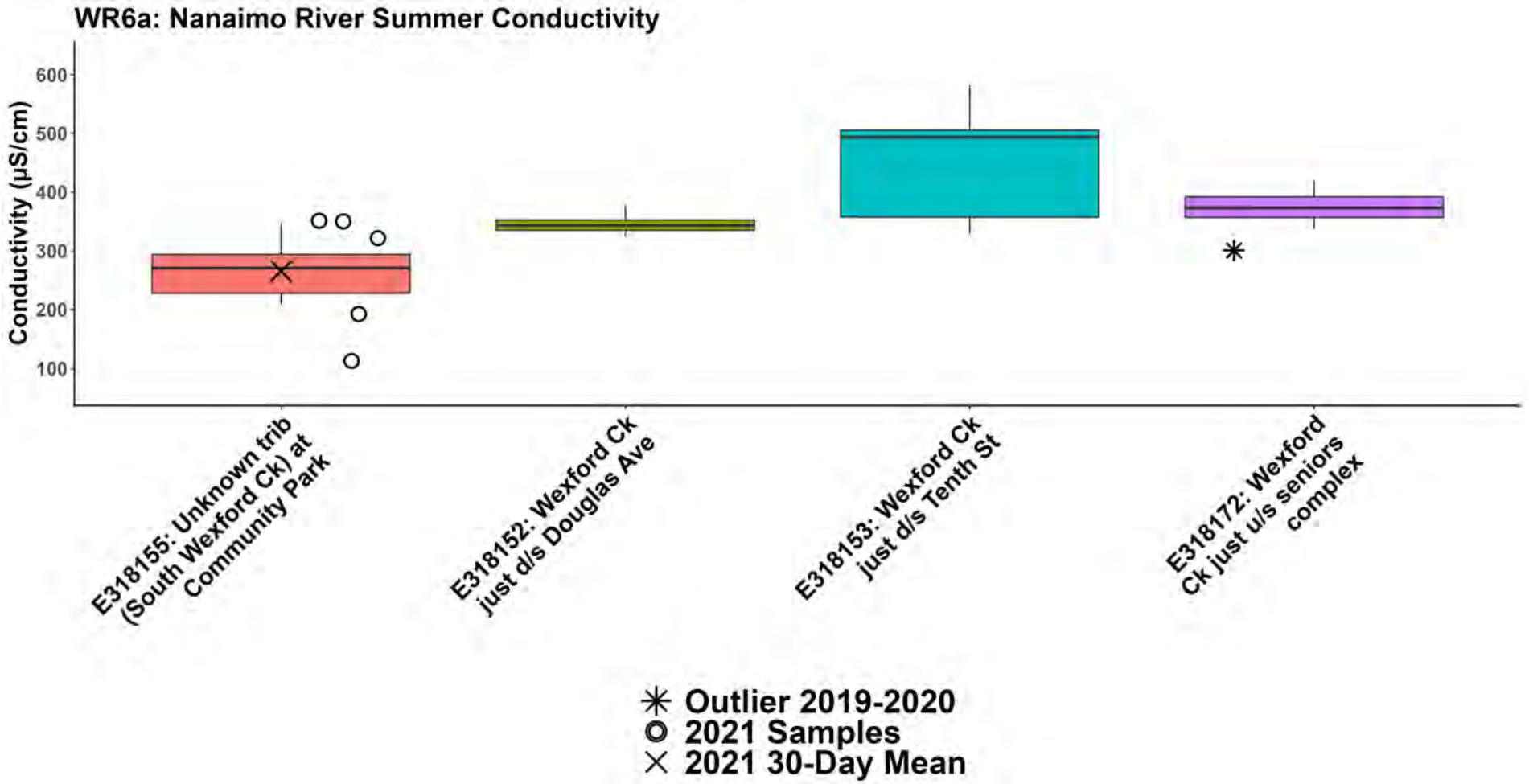
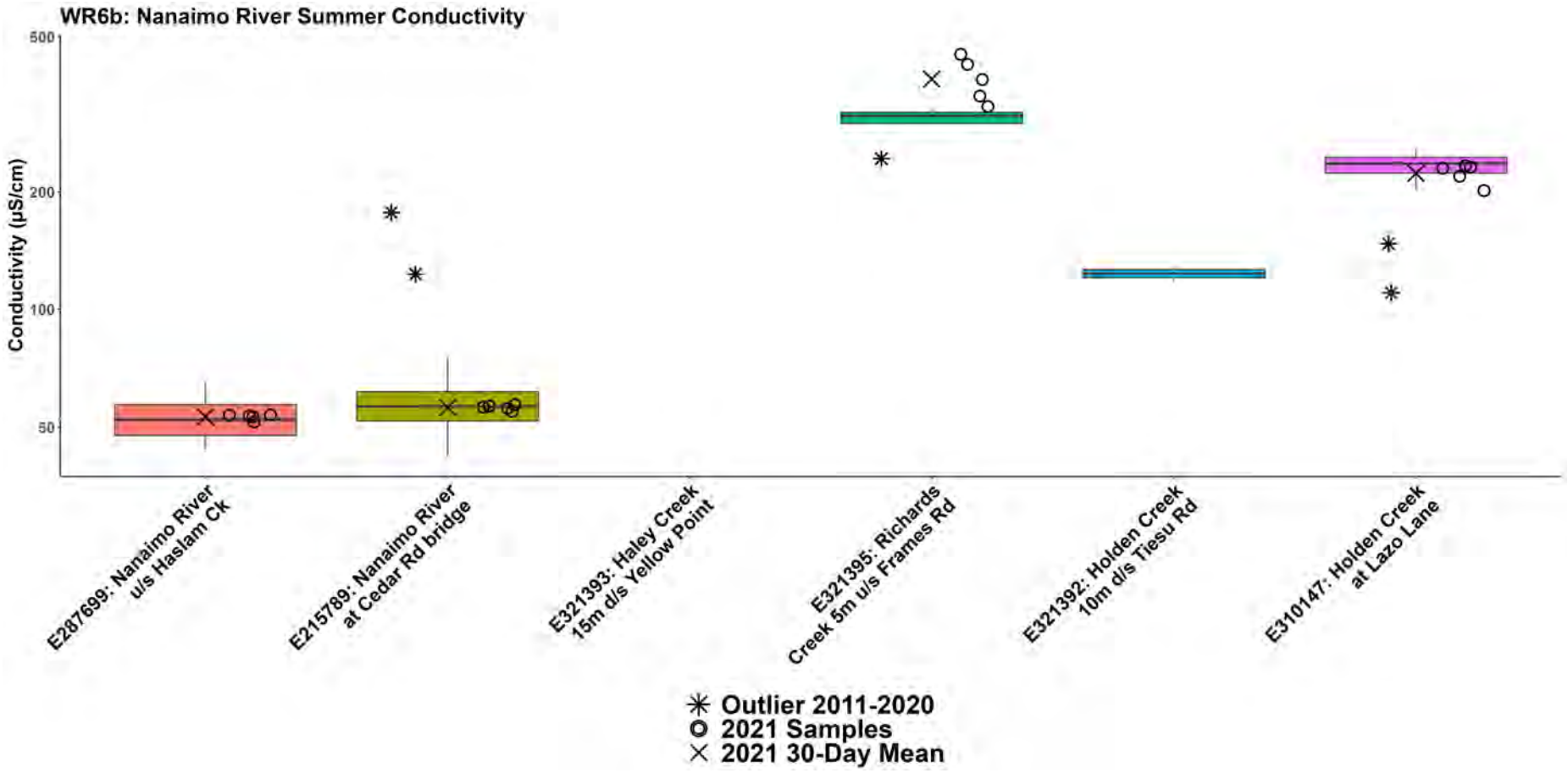
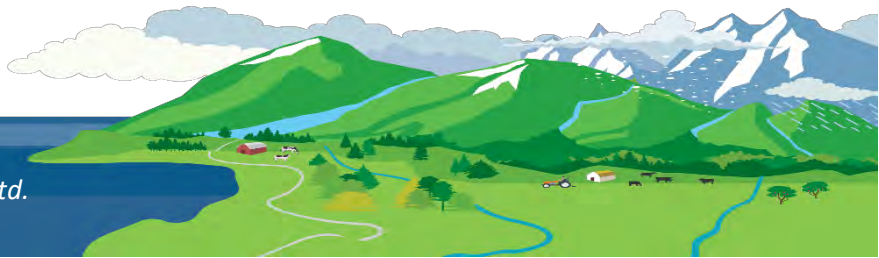
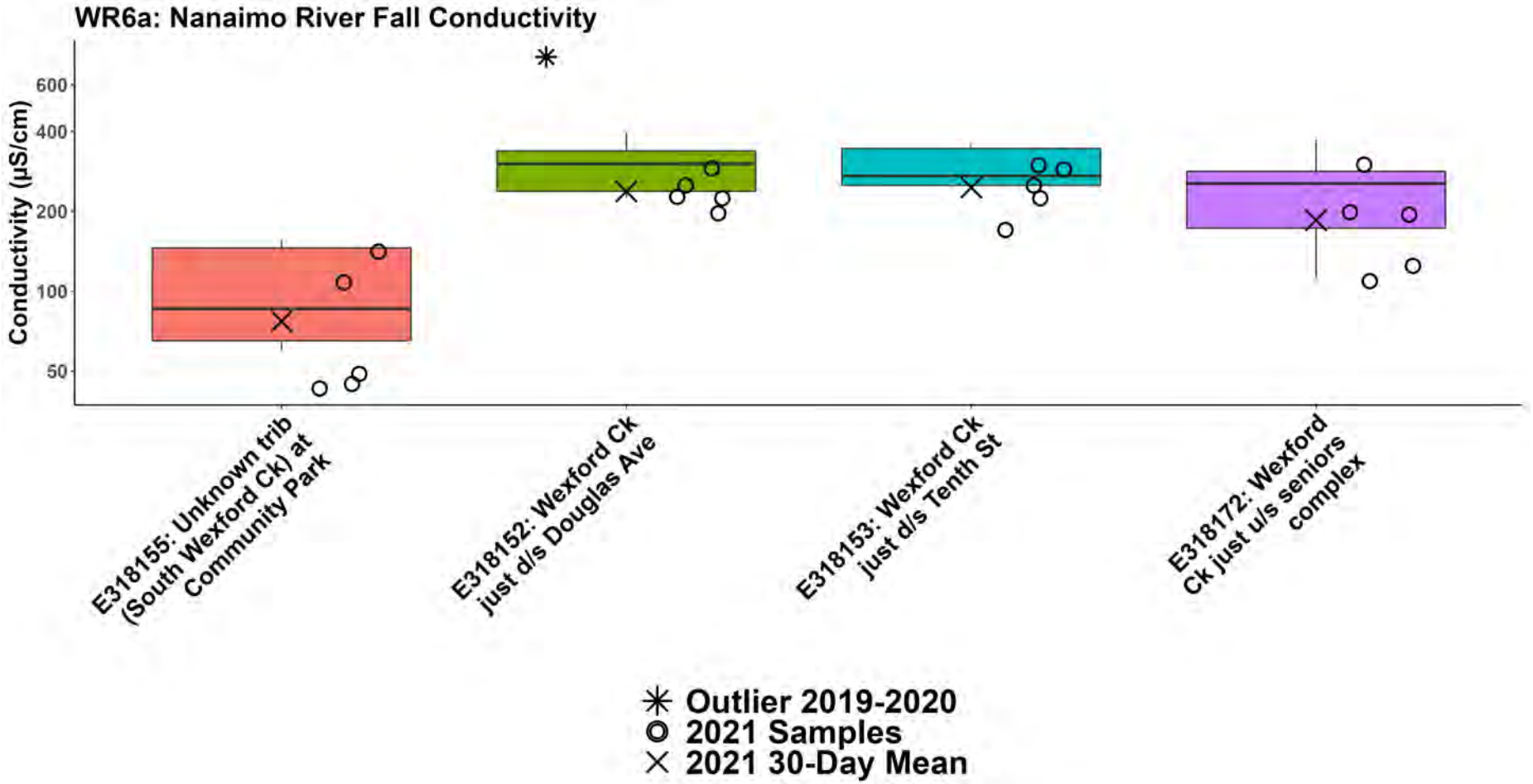
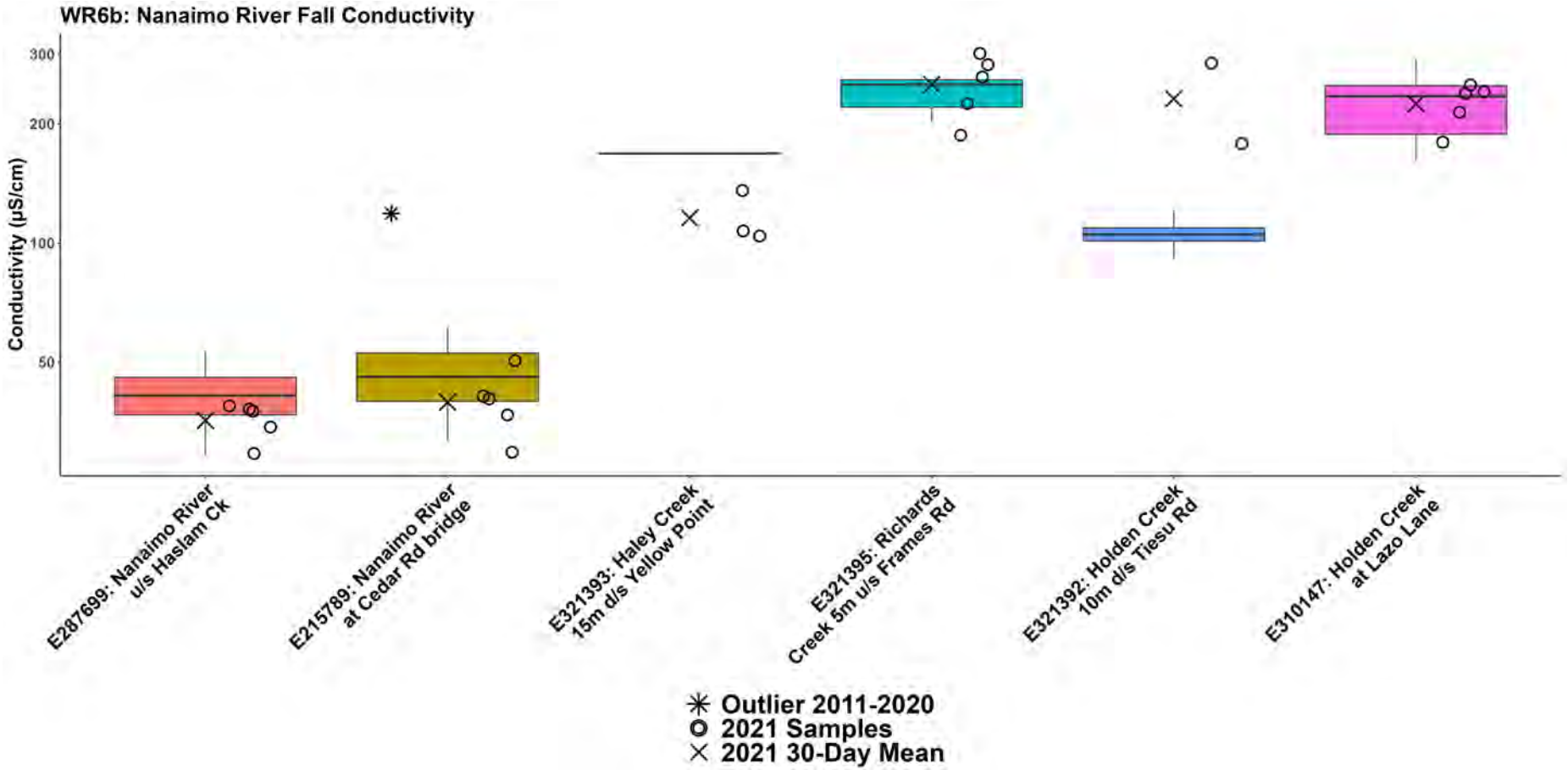
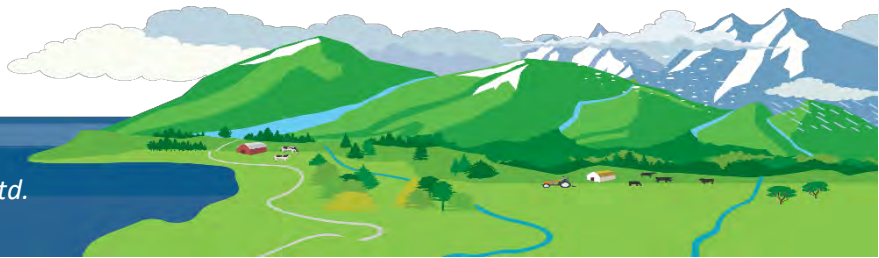

WR6a: Nanaimo River Summer Conductivity
Conductivity (µS/cm)
600
500
400
300
200
100
E318155: Unknown trib (South Wexford Ck) at Community Park
E318152: Wexford Ck just d/s Douglas Ave
E318153: Wexford Ck just d/s Tenth St
E318172: Wexford Ck just u/s seniors complex
Outlier 2019-2020
2021 Samples
2021 30-Day Mean


WR6b: Nanaimo River Summer Conductivity
Conductivity (µS/cm)
500
200
100
50
E287699: Nanaimo River u/s Haslam Ck
E215789: Nanaimo River at Cedar Rd bridge
E321393: Haley Creek 15m d/s Yellow Point
E321395: Richards Creek 5m u/s Frames Rd
E321392: Holden Creek 10m d/s Tiesu Rd
E3101147: Holden Creek at Lazo Lane
Outlier 2011-2020
2021 Samples
2021 30-Day Mean




WR6a: Nanaimo River Fall Conductivity
Conductivity (µS/cm)
600
400
200
100
50
E318155: Unknown trib (South Wexford Ck) at Community Park
E318152: Wexford Ck just d/s Douglas Ave
E318153: Wexford Ck just d/s Tenth St
E318172: Wexford Ck just u/s seniors complex
Outlier 2019-2020
2021 Samples
2021 30-Day Mean





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Question? Call 250-390-6560 or email watermonitoring@rdn.bc.ca

Wexford Creek Streamkeepers
2021 Monitoring Sites

Status

- Active
- Not Active
- Watercourse (approximate location)

2018 Air Photo

0 100 200 400 Meters

Feb 2020

N

Regional District of Nanaimo

E318152
E318153
E318172
E318154
E318155

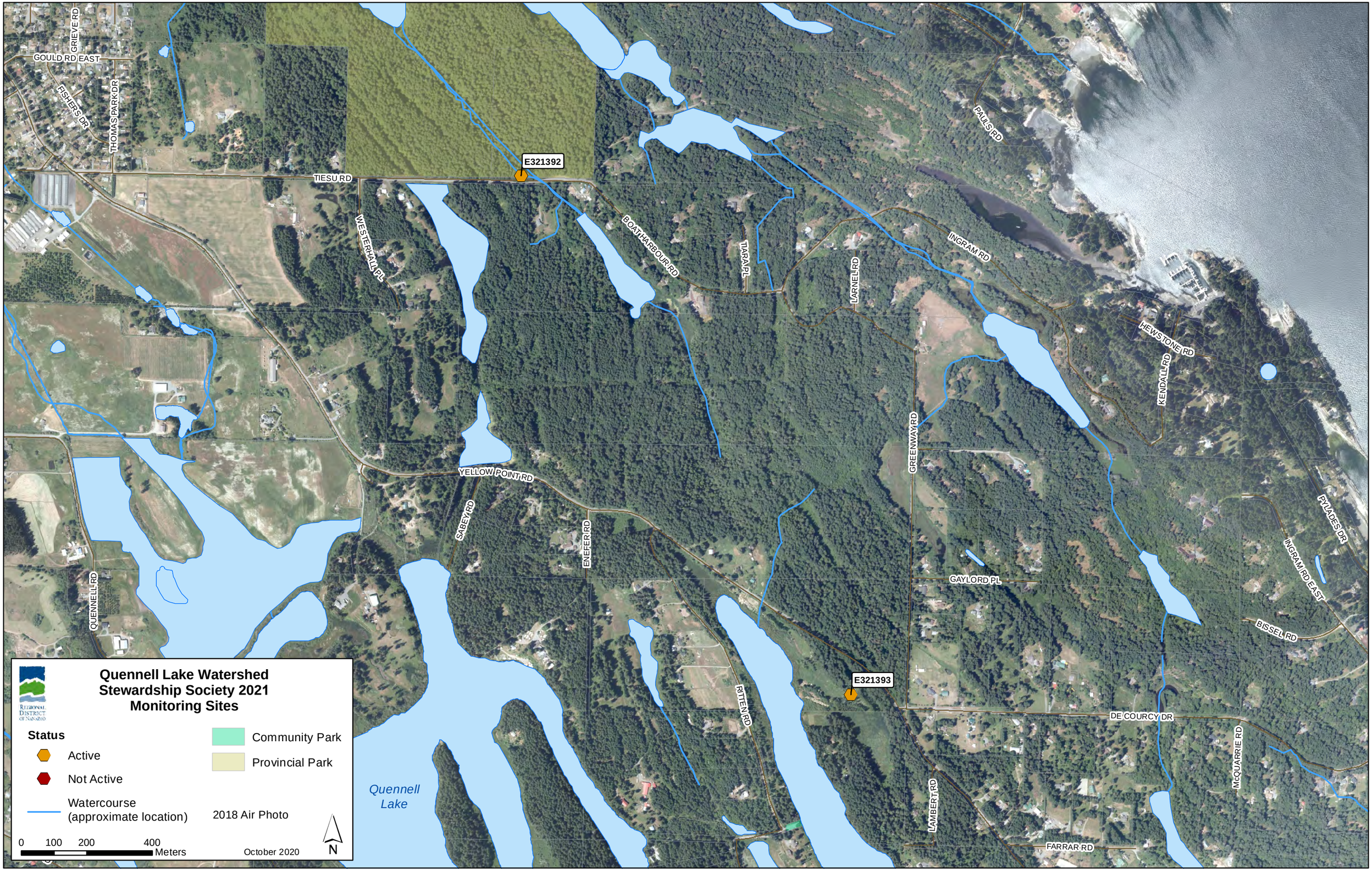
Electoral Area C

City of Nanaimo

CAMBIE RD
NINTH ST
LORI PL
SHELBY ANN AVE
MARISA ST
BRUCE AVE
BRAMBLEWOOD LANE
TIMBERWOOD DR
PARK AVE
SILVER MOUNTAIN DR
CORDAN ST
SOUTHWOOD DR
DOUGLAS AVE
SOUTHSIDE DR
TENTH ST
NANAIMO PARKWAY
OLD VICTORIA RD
Chase River
HALIBURTON ST
Wexford Creek
LAWLOR RD
MAKI RD
TWELFTH ST
TRANS-CANADA HIGHWAY
CASSIDY DR
CRANBERRY AVE
THIRTEENTH ST
Beck Creek
FIELDING RD
CEDAR RD
FREW RD
McKEOWN WAY
COWLING RD
EXTENSION RD
WILSON RD
FOURTEENTH ST
FRAMES ST
ALBERTA RD
DODDS RD
MARBAN RD
ROBERTA RD WEST
ROBERTA RD EAST
CENTENNARY DR
LENWOOD RD
MAYLOR CRES
LEBARZ RD
BEADALL RD
TROFTON RD

Nanaimo & Area Land Trust
2021 Monitoring Sites
RD
Status
Active
Not Active
Watercourse (approximate location)
Community Park
Regional Park
Provincial Park
2018 Air Photo
0 250 500 1,000 Meters
October 2020
N
City of Nanaimo
E309281
E321395
E310147
E215789
E287700
E287699
Wexford Creek
Beck Creek
Holden Creek
Holden Lake
Nanaimo River
Haslam Creek
Quennell Lake
TENTH ST
MAKI RD
TWELFTH ST
McKEOWN WAY
NANAIMO PARKWAY
FIELDING RD
RAINES RD
CLIFFORD RD
GORDON RD
MAUGHAN RD
STUYWAT RD
MACMILLAN RD
CHARTWELL RD
WHITE RD
KURTIS CRES
LINDSEY RD
IVOR RD
LEASK RD
NICOLA RD
BARNES RD
FAWCETT RD
NELSON RD
HARMAC RD
HUDDINGTON RD
DUKE POINT HIGHWAY
WALSH RD
RUGG RD
BRIGHTMAN RD
RAJEENA WAY
EXTENSION RD
RANCHVIEW DR
RICHARDSON RD
TAIT RD
SZASZ DR
PORTER RD
CINNABAR DR
KELSIE RD
KIPP RD
TRANS-CANADA HIGHWAY
WILKINSON RD
CEDAR RD
STARLING RD
WOOBANK RD
HEMER RD
HOLDEN CORSO RD
LOFTHOUSE RD
EXTENSION RD
LAKESIDE DR
PLECAS RD
EVANS RD
BROTHERS RD
MINETOWN RD
MINTO AVE
CALEDONIA AVE
BALSAM RD
SCHOOLHOUSE RD
AKENHEAD RD
MORLAND RD
FURN RD
GRIEVE RD
SCOTCHTOWN RD
NICTASH PL
DICK AVE
MAIN RD
WARING RD
GOULD RD WEST
WHITE RAPIDS RD
SCHON RD
GOMERICH RD
SOUTH WELLINGTON RD
MORDEN RD
TIESU RD
BOATHARBOUR RD
INGRAM RD
GODFREY RD
THATCHER RD
EMBLEM RD
GREENWAY RD
KENDALL RD
YELLOW POINT RD
DE COURCY DR
RITTEN RD
FARRAR RD
NANAIMO RIVER RD
HILBERT RD
HASLAM RD
QUENNELL RD

E290484
E290486
E290485
E290483
E309280
E290487
Colliery Dam
Cat Stream
Chase River
Beck Creek
NANAIMO LAKES RD
PARKVIEW DR
SIXTH ST
HONEY DR
SEVENTH ST
NOVA ST
DEERING ST
MURRAY ST
EIGHTH ST
WEBER ST
ALPEN WAY
CAMBIE RD
NINTH ST
TENTH ST
TWELFTH ST
THIRTEENTH ST
CORDAN ST
SOUTHWOOD DR
SILVER MOUNTAIN DR
NANAIMO PARKWAY
HAREWOOD MINES RD
WESTERN ACRES RD
RINROCK TRAIL
PALOMINO PL
LORI PL
MARISA ST
SHELBY ANN AVE
TIMBERWOOD DR
BROOKFIELD DR
SOUTHLAND WAY
HOWARD AVE
GEORGIA AVE
BRUCE AVE
STIRLING AVE
PARK AVE
RAILWAY AVE
DOUGLAS AVE
SOUTHSIDE DR
PRINCESS ST
VIEW ST
VICTORIA RD
RAINER ST
STRICKLAND ST
NICOL ST
ROBINS ST
EATON ST
CENTRE ST
SHORELINE RD
HALIBURTON ST
OLD VICTORIA RD
RYAN RD
TRANS-CANADA HIGHWAY
LAWLOR RD
MAKI RD
McKEOWN WAY
CRANBERRY AVE
CASSIDY DR
FELDING RD
CEDAR RD
DODDS RD
EXTENSION RD
Vancouver Island University
Coastal Hydrology and Climate Change
Research Lab
2021 Monitoring Sites
Status
Active
Not Active
Watercourse
(approximate location)
2018 Air Photo
0 100 200 400
Meters
July 2019
N


GOULD RD EAST
GRIEVE RD
FISHERS DR
THOMAS PARK DR
TIESU RD
E321392
WESTERHALL PL
BOAT HARBOUR RD
TIARA PL
LARNEL RD
PAULS RD
INGRAM RD
HEWSTONE RD
KENDALL RD
GREENWAY RD
YELLOW POINT RD
SABEY RD
ENEFER RD
QUENNELL RD
GAYLORD PL
INGRAM RD EAST
PYLADES DR
BISSEL RD
E321393
RITTEN RD
DE COURCY DR
McQUARRIE RD
LAMBERT RD
FARRAR RD
Quennell Lake
Quennell Lake Watershed Stewardship Society 2021 Monitoring Sites
Regional District of Nanaimo
Status
Active
Not Active
Watercourse (approximate location)
Community Park
Provincial Park
2018 Air Photo
0 100 200 400 Meters
October 2020
N