

From: [Hopkins, Scott](#)
To: ["Ashley Rawhouser"](#); ["bgoedde@cityofchelan.us"](#); ["Breean Zimmerman"](#); [Buehn, Scott](#); ["Carl Merkle"](#); [Clement, Marcie](#); ["David Bowen"](#); ["Emily Johnson "](#); ["Graham Simon"](#); ["Hugh Anthony"](#); ["Jim Pacheco"](#); ["Justin Yeager"](#); ["Kari Grover Wier"](#); ["Mark Peterschmidt"](#); [Osborn, Jeff](#); ["Phil Archibald"](#); ["robin@mansonparks.com"](#); ["Ryan.Layton@parks.wa.gov"](#); [Smith, Michelle](#); ["Steve Lewis"](#); ["Thomas O'Keefe"](#); [Towey, Bill](#); ["Travis Maitland"](#); [Underwood, Alene](#); [Von Reis, Charles](#); [Willard, Catherine](#); ["Mayfield, Mariah - FS"](#); ["Kevin Wright"](#); ["Esh, Nathan"](#); ["randi_riggs@fws.gov"](#); [Wasniewski, John](#); ["jamesurness@hotmail.com"](#); ["wfarris@cityofchelan.us"](#); ["Pruit, Katie \(RCO\)"](#); ["jody.walters@noaa.gov"](#); ["blod@yakamafish-nsn.gov"](#); ["bret.nine@colvilletribes.com"](#)
Cc: [Whiteman, Martha](#); [West, Todd](#); [Miller, Joshua](#); ["Pradeep Mugunthan"](#)
Subject: Chelan River Temperature Monitoring Data - 2020 July Reports
Date: Friday, August 28, 2020 11:09:23 AM
Attachments: [2020 Chelan River Daily Average Temperature Data July Report.pdf](#)
[2020 Chelan River Hourly Temperature Data July Report.pdf](#)
[image001.png](#)

PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY
P.O. Box 1231, Wenatchee, WA 98807-1231 • 327 N. Wenatchee Ave., Wenatchee, WA 98801
(509) 663-8121 • Toll free 1-888-663-8121 • www.chelanpud.org

To: Department of Ecology
Water Quality Program
Central Regional Office

Chelan River Fishery Forum:
Washington Department of Ecology
Washington Department of Fish and Wildlife
United States Forest Service
National Park Service
United States Fish and Wildlife Service
National Marine Fisheries Service
CCT (Colville)
YN (Yakama)
CTUIR (Umatilla tribe)
Lake Chelan Sportsman Association
United States Geological Survey
Washington State Parks and Recreation Commission
Washington State Recreation and Conservation Office
City of Chelan
Manson Parks and Recreation Department
Lake Chelan Recreation Association
American Whitewater

From: Scott Hopkins, Fisheries Biologist II
Public Utility District No. 1 of Chelan County (Chelan PUD)
scott.hopkins@chelanpud.org
(509)661-4763

Re: Lake Chelan Hydroelectric Project No. 637 (Project)
Appendix D 401 Water Quality Certification Condition V.C.i)
Water Temperature Data Reports: July 2020

Dear Ecology Water Quality Program, Chelan River Fishery Forum, and Other Parties:

Water temperature monitoring data for July 2020 are provided in the attached files. This information will be posted to the Chelan County PUD external website under "River Flows, Water Temperatures and Total Dissolved Gas" (link below).

<https://www.chelanpud.org/parks-and-recreation/river-flows-and-water-temperatures>

Data during times of maintenance, calibration, or other miscellaneous events have been denoted with "NA" to designate these periods when data was either unavailable or inaccurate. Noteworthy events are explained below.

- All temperature data has been reported.

Please feel free to call or email any questions or comments.



Scott Hopkins

Fisheries Biologist II

Chelan County P.U.D.

P: (509) 661-4763

C: (509) 630-2708

Date	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2020	19.1	19.2	19.2	19.2	19.3	19.3	19.7	19.2
7/2/2020	18.8	18.9	19.0	19.0	19.1	19.1	19.4	19.0
7/3/2020	18.7	18.8	18.9	18.9	19.0	19.0	19.4	18.9
7/4/2020	18.8	18.9	18.9	19.0	19.0	19.1	19.4	18.9
7/5/2020	19.1	19.2	19.3	19.4	19.4	19.5	19.7	19.2
7/6/2020	19.4	19.6	19.7	19.8	19.9	20.0	20.1	19.6
7/7/2020	19.4	19.6	19.7	19.7	19.8	19.8	20.1	19.6
7/8/2020	19.4	19.5	19.6	19.6	19.6	19.7	20.0	19.5
7/9/2020	19.5	19.7	19.7	19.7	19.7	19.8	20.2	19.7
7/10/2020	19.6	19.8	20.0	20.1	20.1	20.1	20.3	19.8
7/11/2020	19.9	20.1	20.0	20.1	20.1	20.1	20.6	20.0
7/12/2020	19.8	20.0	19.8	19.8	19.8	19.8	20.5	19.9
7/13/2020	19.8	20.0	20.0	20.0	20.0	20.0	20.4	19.8
7/14/2020	19.8	20.0	20.2	20.4	20.3	20.4	20.6	20.0
7/15/2020	20.0	20.3	20.5	20.7	20.6	20.7	20.8	20.3
7/16/2020	20.6	20.8	20.9	21.0	21.0	21.1	21.3	20.7
7/17/2020	21.0	21.2	21.3	21.4	21.4	21.5	21.6	21.1
7/18/2020	21.2	21.4	21.5	21.6	21.6	21.7	21.9	21.4
7/19/2020	21.3	21.6	21.9	22.1	22.0	22.1	22.1	21.6
7/20/2020	20.4	20.6	21.5	21.7	21.7	21.7	21.9	21.2
7/21/2020	20.0	20.6	21.9	22.0	22.0	22.0	22.1	21.5
7/22/2020	22.9	23.2	23.2	23.3	23.3	23.3	23.6	23.0
7/23/2020	22.9	23.1	23.1	23.1	23.1	23.1	23.6	23.1
7/24/2020	22.3	22.5	22.3	22.4	22.4	22.4	23.0	22.5
7/25/2020	21.7	21.9	21.9	21.9	21.9	21.9	22.4	21.8
7/26/2020	21.3	21.4	21.7	21.9	21.9	21.9	22.1	21.6
7/27/2020	20.5	20.6	21.6	22.0	21.9	22.3	21.8	21.3
7/28/2020	21.4	21.6	21.9	22.0	22.0	22.8	22.6	22.1
7/29/2020	22.3	22.5	22.7	22.7	22.7	23.3	23.2	22.6
7/30/2020	22.0	22.2	22.7	22.9	22.9	23.7	23.3	22.7
7/31/2020	21.8	22.0	22.8	23.2	23.2	24.0	23.2	22.7

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2020	1	19.3	19.3	19.2	19.3	19.3	19.4	19.9	19.4
7/1/2020	2	19.2	19.3	19.2	19.2	19.3	19.3	19.8	19.3
7/1/2020	3	19.2	19.2	19.1	19.2	19.2	19.2	19.8	19.2
7/1/2020	4	19.1	19.2	19.1	19.1	19.2	19.2	19.7	19.2
7/1/2020	5	19.0	19.1	19.0	19.0	19.1	19.1	19.7	19.1
7/1/2020	6	19.0	19.1	18.9	19.0	19.1	19.1	19.6	19.1
7/1/2020	7	18.9	19.0	18.9	19.0	19.0	19.1	19.6	19.1
7/1/2020	8	18.9	19.0	18.9	18.9	19.0	19.0	19.6	19.0
7/1/2020	9	18.9	19.0	19.0	19.0	19.0	19.1	19.6	19.0
7/1/2020	10	18.9	19.0	19.0	19.1	19.1	19.2	19.6	19.1
7/1/2020	11	18.9	19.0	19.2	19.3	19.3	19.3	19.6	19.1
7/1/2020	12	18.9	19.1	19.4	19.4	19.4	19.5	19.6	19.2
7/1/2020	13	19.0	19.2	19.5	19.6	19.6	19.8	19.7	19.2
7/1/2020	14	19.1	19.3	19.6	19.7	19.7	19.8	19.7	19.3
7/1/2020	15	19.1	19.3	19.6	19.6	19.6	19.7	19.7	19.4
7/1/2020	16	19.2	19.4	19.5	19.6	19.7	19.8	19.7	19.4
7/1/2020	17	19.2	19.4	19.4	19.4	19.5	19.5	19.7	19.4
7/1/2020	18	19.2	19.3	19.3	19.4	19.4	19.5	19.7	19.4
7/1/2020	19	19.2	19.3	19.2	19.3	19.3	19.4	19.7	19.3
7/1/2020	20	19.2	19.2	19.2	19.2	19.2	19.3	19.7	19.3
7/1/2020	21	19.1	19.2	19.1	19.1	19.2	19.2	19.7	19.2
7/1/2020	22	19.1	19.1	19.0	19.1	19.1	19.1	19.7	19.2
7/1/2020	23	19.0	19.1	19.0	19.0	19.1	19.1	19.6	19.1
7/1/2020	24	18.9	19.0	18.9	19.0	19.1	19.1	19.6	19.0
7/2/2020	1	18.9	19.0	18.9	19.0	19.0	19.1	19.5	19.0
7/2/2020	2	18.9	19.0	18.9	18.9	19.0	19.0	19.4	19.0
7/2/2020	3	18.8	18.9	18.8	18.9	18.9	19.0	19.4	18.9
7/2/2020	4	18.8	18.9	18.7	18.8	18.9	18.9	19.3	18.9
7/2/2020	5	18.7	18.8	18.7	18.7	18.8	18.8	19.3	18.8
7/2/2020	6	18.7	18.8	18.7	18.7	18.7	18.7	19.3	18.7
7/2/2020	7	18.7	18.7	18.7	18.7	18.7	18.7	19.3	18.8
7/2/2020	8	18.6	18.7	18.6	18.7	18.7	18.8	19.3	18.7
7/2/2020	9	18.6	18.7	18.7	18.7	18.8	18.8	19.3	18.7
7/2/2020	10	18.6	18.7	18.8	18.8	18.8	18.9	19.4	18.7
7/2/2020	11	18.6	18.7	19.0	19.0	19.0	19.1	19.4	18.8
7/2/2020	12	18.7	18.8	19.2	19.2	19.2	19.3	19.4	18.9
7/2/2020	13	18.7	18.9	19.2	19.3	19.3	19.5	19.4	19.0
7/2/2020	14	18.8	19.0	19.3	19.4	19.4	19.6	19.4	19.1
7/2/2020	15	18.9	19.1	19.4	19.5	19.5	19.6	19.5	19.1
7/2/2020	16	18.9	19.1	19.4	19.5	19.5	19.6	19.5	19.2
7/2/2020	17	19.0	19.1	19.3	19.4	19.5	19.6	19.5	19.2
7/2/2020	18	19.0	19.1	19.2	19.3	19.3	19.4	19.6	19.2
7/2/2020	19	19.0	19.1	19.1	19.2	19.3	19.3	19.6	19.2
7/2/2020	20	19.0	19.1	19.1	19.1	19.2	19.2	19.6	19.2
7/2/2020	21	19.0	19.1	19.0	19.0	19.1	19.1	19.6	19.2
7/2/2020	22	18.9	19.1	19.0	19.0	19.0	19.0	19.6	19.1
7/2/2020	23	18.9	19.0	18.9	19.0	19.0	19.1	19.6	19.1

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/2/2020	24	18.9	19.0	18.9	18.9	19.0	19.0	19.5	19.0
7/3/2020	1	18.8	18.9	18.8	18.9	18.9	19.0	19.5	19.0
7/3/2020	2	18.8	18.8	18.7	18.8	18.8	18.9	19.4	18.9
7/3/2020	3	18.7	18.8	18.7	18.7	18.8	18.8	19.4	18.8
7/3/2020	4	18.7	18.7	18.6	18.7	18.7	18.7	19.3	18.8
7/3/2020	5	18.6	18.7	18.5	18.6	18.6	18.7	19.3	18.7
7/3/2020	6	18.6	18.6	18.5	18.5	18.6	18.6	19.3	18.7
7/3/2020	7	18.5	18.6	18.5	18.5	18.5	18.6	19.3	18.6
7/3/2020	8	18.5	18.6	18.6	18.6	18.6	18.7	19.3	18.6
7/3/2020	9	18.5	18.6	18.7	18.7	18.7	18.7	19.3	18.7
7/3/2020	10	18.5	18.6	18.8	18.8	18.8	18.9	19.3	18.7
7/3/2020	11	18.6	18.7	19.0	19.0	19.0	19.1	19.3	18.8
7/3/2020	12	18.6	18.8	19.1	19.2	19.2	19.3	19.4	18.9
7/3/2020	13	18.7	18.9	19.2	19.3	19.3	19.4	19.4	18.9
7/3/2020	14	18.8	19.0	19.3	19.3	19.4	19.5	19.4	19.0
7/3/2020	15	18.9	19.1	19.2	19.4	19.5	19.6	19.4	19.1
7/3/2020	16	18.9	19.1	19.2	19.3	19.3	19.4	19.4	19.1
7/3/2020	17	18.9	19.1	19.2	19.2	19.3	19.3	19.5	19.1
7/3/2020	18	18.9	19.1	19.1	19.2	19.2	19.3	19.5	19.1
7/3/2020	19	18.9	19.1	19.1	19.1	19.2	19.2	19.5	19.1
7/3/2020	20	18.9	19.0	19.0	19.1	19.1	19.2	19.5	19.1
7/3/2020	21	18.9	19.0	18.9	19.0	19.1	19.1	19.5	19.1
7/3/2020	22	18.9	18.9	18.8	18.9	19.0	19.0	19.5	19.0
7/3/2020	23	18.8	18.9	18.7	18.8	18.9	18.9	19.4	18.9
7/3/2020	24	18.8	18.8	18.7	18.7	18.8	18.8	19.4	18.9
7/4/2020	1	18.7	18.8	18.6	18.7	18.7	18.8	19.3	18.8
7/4/2020	2	18.7	18.7	18.6	18.6	18.7	18.7	19.3	18.8
7/4/2020	3	18.6	18.7	18.5	18.6	18.6	18.7	19.2	18.7
7/4/2020	4	18.6	18.6	18.4	18.5	18.5	18.5	19.1	18.7
7/4/2020	5	18.5	18.6	18.4	18.4	18.5	18.5	19.1	18.6
7/4/2020	6	18.5	18.5	18.4	18.4	18.4	18.5	19.1	18.6
7/4/2020	7	18.4	18.5	18.4	18.4	18.4	18.5	19.1	18.6
7/4/2020	8	18.4	18.5	18.4	18.4	18.5	18.5	19.2	18.5
7/4/2020	9	18.4	18.5	18.6	18.6	18.6	18.7	19.2	18.6
7/4/2020	10	18.4	18.5	18.8	18.8	18.8	18.9	19.2	18.6
7/4/2020	11	18.5	18.6	19.0	19.0	19.0	19.2	19.2	18.6
7/4/2020	12	18.5	18.7	19.2	19.2	19.2	19.4	19.2	18.7
7/4/2020	13	18.6	18.8	19.3	19.4	19.4	19.5	19.3	18.9
7/4/2020	14	18.8	19.0	19.4	19.5	19.5	19.7	19.3	19.0
7/4/2020	15	18.9	19.1	19.5	19.6	19.6	19.8	19.4	19.1
7/4/2020	16	19.0	19.1	19.4	19.5	19.5	19.7	19.5	19.2
7/4/2020	17	19.0	19.2	19.5	19.5	19.6	19.7	19.6	19.3
7/4/2020	18	19.1	19.3	19.4	19.5	19.6	19.7	19.7	19.3
7/4/2020	19	19.2	19.3	19.3	19.4	19.5	19.5	19.7	19.3
7/4/2020	20	19.2	19.3	19.2	19.3	19.4	19.4	19.8	19.4
7/4/2020	21	19.2	19.3	19.2	19.2	19.3	19.3	19.9	19.4
7/4/2020	22	19.1	19.2	19.1	19.2	19.2	19.2	19.8	19.3

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/4/2020	23	19.1	19.2	19.0	19.1	19.2	19.2	19.7	19.3
7/4/2020	24	19.1	19.2	19.0	19.0	19.1	19.1	19.7	19.2
7/5/2020	1	19.0	19.1	18.9	18.9	19.0	19.0	19.6	19.2
7/5/2020	2	19.0	19.1	18.8	18.9	18.9	18.9	19.6	19.1
7/5/2020	3	18.9	19.0	18.8	18.8	18.9	18.9	19.5	19.0
7/5/2020	4	18.9	18.9	18.7	18.8	18.8	18.9	19.5	19.0
7/5/2020	5	18.8	18.9	18.7	18.7	18.7	18.8	19.4	18.9
7/5/2020	6	18.8	18.8	18.6	18.7	18.7	18.7	19.4	18.9
7/5/2020	7	18.7	18.8	18.7	18.7	18.7	18.7	19.4	18.8
7/5/2020	8	18.7	18.8	18.7	18.7	18.7	18.8	19.5	18.8
7/5/2020	9	18.7	18.8	18.9	18.8	18.8	18.9	19.5	18.8
7/5/2020	10	18.7	18.8	19.1	19.1	19.1	19.2	19.5	18.9
7/5/2020	11	18.7	18.9	19.4	19.4	19.4	19.5	19.5	18.9
7/5/2020	12	18.8	19.0	19.7	19.7	19.7	19.9	19.5	19.0
7/5/2020	13	18.9	19.2	19.9	20.0	19.9	20.1	19.5	19.1
7/5/2020	14	19.1	19.3	20.0	20.2	20.2	20.3	19.6	19.2
7/5/2020	15	19.2	19.4	20.0	20.2	20.2	20.4	19.7	19.4
7/5/2020	16	19.3	19.5	20.0	20.2	20.3	20.5	19.8	19.5
7/5/2020	17	19.4	19.6	19.9	20.1	20.2	20.3	19.9	19.6
7/5/2020	18	19.4	19.6	19.8	20.0	20.1	20.2	19.9	19.6
7/5/2020	19	19.5	19.7	19.7	19.9	20.0	20.0	20.0	19.7
7/5/2020	20	19.5	19.7	19.6	19.7	19.8	19.9	20.1	19.7
7/5/2020	21	19.5	19.7	19.4	19.5	19.6	19.7	20.1	19.6
7/5/2020	22	19.5	19.6	19.3	19.4	19.5	19.5	20.1	19.6
7/5/2020	23	19.4	19.6	19.3	19.4	19.4	19.5	20.0	19.6
7/5/2020	24	19.4	19.5	19.3	19.3	19.4	19.4	20.0	19.5
7/6/2020	1	19.3	19.5	19.2	19.3	19.3	19.4	19.9	19.5
7/6/2020	2	19.3	19.4	19.1	19.2	19.2	19.3	19.9	19.5
7/6/2020	3	19.3	19.4	19.1	19.1	19.2	19.2	19.8	19.4
7/6/2020	4	19.2	19.3	19.1	19.1	19.2	19.2	19.8	19.3
7/6/2020	5	19.1	19.2	19.0	19.1	19.1	19.2	19.8	19.3
7/6/2020	6	19.1	19.2	19.0	19.0	19.1	19.1	19.8	19.2
7/6/2020	7	19.1	19.2	19.0	19.0	19.1	19.1	19.8	19.2
7/6/2020	8	19.0	19.1	19.1	19.1	19.1	19.2	19.8	19.2
7/6/2020	9	19.0	19.2	19.3	19.2	19.2	19.3	19.8	19.2
7/6/2020	10	19.0	19.2	19.6	19.6	19.5	19.7	19.8	19.2
7/6/2020	11	19.1	19.3	19.9	19.9	19.9	20.0	19.9	19.3
7/6/2020	12	19.1	19.4	20.2	20.2	20.2	20.3	19.9	19.4
7/6/2020	13	19.3	19.6	20.5	20.6	20.5	20.7	19.9	19.5
7/6/2020	14	19.4	19.7	20.7	20.8	20.8	21.0	20.0	19.6
7/6/2020	15	19.5	19.8	20.8	21.0	21.0	21.2	20.1	19.7
7/6/2020	16	19.6	19.8	20.7	21.1	21.1	21.2	20.3	19.8
7/6/2020	17	19.7	19.9	20.5	20.9	21.0	21.1	20.4	19.9
7/6/2020	18	19.7	20.0	20.6	20.6	20.7	20.9	20.4	20.0
7/6/2020	19	19.8	20.0	20.2	20.6	20.7	20.7	20.4	20.0
7/6/2020	20	19.8	20.1	19.8	20.3	20.4	20.5	20.4	20.0
7/6/2020	21	19.9	20.1	19.6	19.9	20.0	20.1	20.4	20.0

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/6/2020	22	19.9	20.0	19.4	19.6	19.7	19.7	20.3	20.0
7/6/2020	23	19.8	19.9	19.3	19.4	19.5	19.5	20.3	20.0
7/6/2020	24	19.8	19.9	19.2	19.3	19.4	19.3	20.3	19.9
7/7/2020	1	19.7	19.8	19.1	19.1	19.2	19.2	20.3	19.8
7/7/2020	2	19.6	19.7	19.0	19.0	19.1	19.1	20.3	19.8
7/7/2020	3	19.6	19.6	18.9	18.9	18.9	18.9	20.2	19.7
7/7/2020	4	19.4	19.5	18.9	18.8	18.8	18.8	20.1	19.6
7/7/2020	5	19.4	19.4	18.8	18.7	18.8	18.8	20.1	19.5
7/7/2020	6	19.3	19.4	18.8	18.7	18.7	18.7	20.0	19.4
7/7/2020	7	19.2	19.3	18.8	18.7	18.7	18.7	19.9	19.3
7/7/2020	8	19.2	19.3	19.1	18.8	18.8	18.8	19.8	19.3
7/7/2020	9	19.1	19.3	19.3	18.9	18.9	18.9	19.8	19.3
7/7/2020	10	19.1	19.3	19.8	19.2	19.2	19.3	19.8	19.3
7/7/2020	11	19.2	19.4	20.2	19.7	19.6	19.7	19.9	19.4
7/7/2020	12	19.2	19.4	20.7	20.3	20.2	20.4	20.0	19.4
7/7/2020	13	19.3	19.5	21.1	20.8	20.7	20.9	20.0	19.5
7/7/2020	14	19.3	19.6	21.4	21.3	21.1	21.3	20.1	19.6
7/7/2020	15	19.5	19.7	21.4	21.5	21.4	21.6	20.2	19.7
7/7/2020	16	19.6	19.8	21.3	21.7	21.6	21.8	20.2	19.8
7/7/2020	17	19.7	19.9	21.1	21.4	21.5	21.7	20.3	19.8
7/7/2020	18	19.7	19.9	20.7	21.1	21.2	21.3	20.3	19.9
7/7/2020	19	19.7	19.8	20.2	20.7	20.8	20.8	20.3	19.8
7/7/2020	20	19.6	19.7	19.6	20.3	20.4	20.4	20.2	19.8
7/7/2020	21	19.6	19.7	19.1	19.8	19.9	19.9	20.2	19.8
7/7/2020	22	19.6	19.6	18.8	19.2	19.5	19.5	20.2	19.8
7/7/2020	23	19.5	19.6	18.7	18.8	19.0	19.0	20.1	19.7
7/7/2020	24	19.5	19.6	18.5	18.6	18.7	18.7	20.1	19.7
7/8/2020	1	19.4	19.5	18.5	18.4	18.5	18.5	20.1	19.6
7/8/2020	2	19.4	19.5	18.4	18.3	18.4	18.3	20.0	19.6
7/8/2020	3	19.3	19.4	18.3	18.2	18.3	18.2	20.0	19.5
7/8/2020	4	19.3	19.4	18.2	18.1	18.2	18.1	19.9	19.4
7/8/2020	5	19.2	19.3	18.2	18.0	18.1	18.0	19.9	19.3
7/8/2020	6	19.1	19.2	18.2	18.0	18.0	17.9	19.8	19.2
7/8/2020	7	19.1	19.2	18.2	18.0	18.0	17.9	19.7	19.2
7/8/2020	8	19.0	19.1	18.5	18.1	18.1	18.1	19.7	19.1
7/8/2020	9	19.0	19.1	18.9	18.2	18.2	18.3	19.6	19.1
7/8/2020	10	19.0	19.2	19.5	18.7	18.6	18.7	19.7	19.2
7/8/2020	11	19.0	19.2	20.1	19.3	19.1	19.3	19.8	19.2
7/8/2020	12	19.1	19.2	20.7	20.1	19.9	20.1	19.8	19.3
7/8/2020	13	19.1	19.4	21.0	20.7	20.6	20.8	19.9	19.3
7/8/2020	14	19.3	19.6	21.4	21.3	21.2	21.5	20.0	19.5
7/8/2020	15	19.4	19.7	21.4	21.6	21.5	21.8	20.1	19.6
7/8/2020	16	19.5	19.7	21.3	21.7	21.7	22.0	20.1	19.7
7/8/2020	17	19.6	19.8	21.1	21.6	21.7	22.0	20.2	19.7
7/8/2020	18	19.7	19.8	20.7	21.4	21.5	21.7	20.3	19.8
7/8/2020	19	19.6	19.8	20.4	21.0	21.1	21.2	20.3	19.8
7/8/2020	20	19.6	19.7	19.9	20.6	20.7	20.8	20.3	19.8

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/8/2020	21	19.7	19.8	19.5	20.2	20.4	20.4	20.3	19.9
7/8/2020	22	19.7	19.8	19.2	19.7	19.9	20.0	20.2	19.9
7/8/2020	23	19.7	19.8	19.1	19.4	19.5	19.6	20.2	19.9
7/8/2020	24	19.7	19.8	19.1	19.1	19.2	19.2	20.2	19.8
7/9/2020	1	19.6	19.7	19.0	19.0	19.1	19.1	20.2	19.8
7/9/2020	2	19.6	19.7	18.9	18.9	19.0	19.0	20.2	19.7
7/9/2020	3	19.5	19.6	18.8	18.8	18.9	18.8	20.1	19.7
7/9/2020	4	19.5	19.6	18.7	18.7	18.7	18.7	20.1	19.7
7/9/2020	5	19.4	19.5	18.7	18.6	18.7	18.6	20.1	19.6
7/9/2020	6	19.4	19.5	18.7	18.6	18.6	18.6	20.1	19.6
7/9/2020	7	19.3	19.5	18.8	18.6	18.6	18.6	20.1	19.5
7/9/2020	8	19.3	19.5	19.0	18.7	18.7	18.7	20.1	19.5
7/9/2020	9	19.3	19.5	19.3	18.9	18.8	18.9	20.0	19.5
7/9/2020	10	19.3	19.5	19.7	19.2	19.1	19.3	20.0	19.5
7/9/2020	11	19.3	19.6	20.1	19.6	19.5	19.6	20.0	19.6
7/9/2020	12	19.4	19.6	20.3	20.1	20.0	20.2	20.1	19.6
7/9/2020	13	19.4	19.7	20.4	20.4	20.3	20.5	20.1	19.6
7/9/2020	14	19.5	19.8	21.0	20.7	20.6	20.8	20.2	19.7
7/9/2020	15	19.6	19.8	21.0	21.0	20.9	21.0	20.2	19.7
7/9/2020	16	19.6	19.9	20.9	21.2	21.2	21.2	20.3	19.8
7/9/2020	17	19.7	19.9	21.1	21.1	21.1	21.3	20.4	19.9
7/9/2020	18	19.8	19.9	21.1	21.2	21.2	21.3	20.4	19.9
7/9/2020	19	19.7	19.9	20.5	21.1	21.1	21.1	20.4	19.9
7/9/2020	20	19.7	19.9	19.9	20.9	21.0	20.9	20.4	19.9
7/9/2020	21	19.7	19.8	19.5	20.4	20.5	20.5	20.4	19.9
7/9/2020	22	19.7	19.8	19.2	19.8	19.9	19.9	20.3	19.8
7/9/2020	23	19.6	19.8	19.0	19.4	19.5	19.4	20.3	19.8
7/9/2020	24	19.6	19.7	18.9	19.1	19.2	19.1	20.2	19.7
7/10/2020	1	19.6	19.7	18.9	18.9	19.0	18.9	20.2	19.7
7/10/2020	2	19.5	19.7	18.9	18.8	18.8	18.7	20.1	19.7
7/10/2020	3	19.5	19.6	18.8	18.8	18.8	18.7	20.1	19.6
7/10/2020	4	19.4	19.5	18.7	18.7	18.7	18.7	20.1	19.6
7/10/2020	5	19.4	19.5	18.6	18.7	18.7	18.6	20.1	19.5
7/10/2020	6	19.3	19.4	18.6	18.6	18.6	18.5	20.0	19.4
7/10/2020	7	19.3	19.4	18.6	18.5	18.5	18.4	20.0	19.4
7/10/2020	8	19.3	19.4	18.9	18.6	18.5	18.6	20.0	19.3
7/10/2020	9	19.2	19.5	19.3	18.8	18.7	18.7	20.0	19.4
7/10/2020	10	19.2	19.6	19.8	19.2	19.0	19.1	20.0	19.4
7/10/2020	11	19.2	19.7	20.5	19.9	19.7	19.8	20.0	19.5
7/10/2020	12	19.3	19.8	21.0	20.6	20.4	20.6	20.0	19.6
7/10/2020	13	19.3	19.8	21.4	21.3	21.1	21.3	20.1	19.7
7/10/2020	14	19.6	19.9	21.7	21.8	21.6	21.8	20.2	19.8
7/10/2020	15	19.7	20.1	21.8	22.1	22.0	22.2	20.3	19.9
7/10/2020	16	19.8	20.1	21.7	22.2	22.1	22.3	20.4	20.0
7/10/2020	17	19.9	20.2	21.6	22.1	22.1	22.3	20.5	20.0
7/10/2020	18	19.8	20.1	21.3	21.9	21.9	22.1	20.6	20.1
7/10/2020	19	19.9	20.1	20.9	21.6	21.6	21.7	20.7	20.1

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/10/2020	20	20.0	20.2	20.3	21.2	21.3	21.3	20.7	20.2
7/10/2020	21	20.1	20.2	19.9	20.8	20.9	20.9	20.6	20.2
7/10/2020	22	20.0	20.2	19.7	20.2	20.4	20.4	20.6	20.1
7/10/2020	23	20.0	20.2	19.6	19.9	20.0	19.9	20.6	20.1
7/10/2020	24	20.0	20.2	19.5	19.7	19.7	19.7	20.6	20.1
7/11/2020	1	20.0	20.1	19.4	19.5	19.6	19.5	20.5	20.1
7/11/2020	2	19.9	20.0	19.3	19.4	19.4	19.3	20.5	20.0
7/11/2020	3	19.9	20.0	19.2	19.3	19.3	19.2	20.5	20.0
7/11/2020	4	19.8	20.0	19.2	19.2	19.2	19.1	20.5	20.0
7/11/2020	5	19.8	19.9	19.1	19.1	19.1	19.0	20.5	19.9
7/11/2020	6	19.8	19.9	19.0	19.0	19.0	18.9	20.5	19.9
7/11/2020	7	19.7	19.9	19.0	18.9	19.0	18.9	20.4	19.8
7/11/2020	8	19.7	19.9	19.3	19.0	19.0	19.0	20.4	19.8
7/11/2020	9	19.7	19.9	19.8	19.2	19.1	19.2	20.4	19.8
7/11/2020	10	19.7	20.0	20.4	19.6	19.5	19.6	20.4	19.8
7/11/2020	11	19.8	20.0	21.0	20.3	20.1	20.2	20.4	19.9
7/11/2020	12	19.8	20.1	21.4	21.0	20.8	21.0	20.5	20.0
7/11/2020	13	19.9	20.2	21.7	21.6	21.3	21.6	20.5	20.0
7/11/2020	14	19.9	20.3	22.0	22.1	21.8	22.1	20.6	20.1
7/11/2020	15	20.1	20.3	21.9	22.3	22.1	22.3	20.6	20.2
7/11/2020	16	20.1	20.3	21.5	22.3	22.2	22.3	20.7	20.2
7/11/2020	17	20.1	20.4	21.0	22.0	22.0	22.1	20.7	20.2
7/11/2020	18	20.1	20.3	20.4	21.5	21.6	21.6	20.7	20.2
7/11/2020	19	20.1	20.3	20.0	20.8	20.9	20.9	20.8	20.2
7/11/2020	20	20.1	20.2	19.6	20.2	20.3	20.3	20.7	20.2
7/11/2020	21	20.1	20.2	19.4	19.8	19.9	19.8	20.7	20.2
7/11/2020	22	20.0	20.1	19.2	19.4	19.5	19.4	20.6	20.2
7/11/2020	23	20.0	20.1	19.0	19.1	19.2	19.1	20.6	20.1
7/11/2020	24	19.9	20.0	19.0	18.9	19.0	18.9	20.5	20.0
7/12/2020	1	19.8	19.9	19.1	18.8	18.8	18.7	20.5	19.8
7/12/2020	2	19.8	19.9	19.0	18.8	18.8	18.7	20.4	19.8
7/12/2020	3	19.7	19.8	18.9	18.9	18.9	18.7	20.4	19.8
7/12/2020	4	19.7	19.8	18.7	18.7	18.7	18.6	20.4	19.7
7/12/2020	5	19.7	19.8	18.6	18.6	18.6	18.5	20.4	19.6
7/12/2020	6	19.6	19.7	18.7	18.5	18.5	18.4	20.4	19.6
7/12/2020	7	19.6	19.7	18.8	18.5	18.5	18.4	20.4	19.6
7/12/2020	8	19.6	19.7	19.0	18.7	18.6	18.6	20.4	19.6
7/12/2020	9	19.6	19.7	19.3	18.9	18.8	18.8	20.4	19.6
7/12/2020	10	19.6	19.8	19.9	19.3	19.1	19.2	20.4	19.6
7/12/2020	11	19.6	19.8	20.3	19.6	19.4	19.6	20.4	19.7
7/12/2020	12	19.6	19.9	21.0	20.3	20.1	20.2	20.4	19.7
7/12/2020	13	19.7	20.0	21.4	20.9	20.7	20.8	20.5	19.9
7/12/2020	14	19.8	20.1	21.6	21.6	21.3	21.4	20.6	20.0
7/12/2020	15	19.8	20.1	21.6	21.8	21.6	21.8	20.6	20.2
7/12/2020	16	19.9	20.2	21.5	21.9	21.8	21.9	20.7	20.3
7/12/2020	17	20.0	20.2	21.2	21.7	21.7	21.8	20.7	20.3
7/12/2020	18	20.0	20.2	20.8	21.3	21.4	21.5	20.8	20.3

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/12/2020	19	20.0	20.2	20.2	20.8	20.9	20.9	20.8	20.1
7/12/2020	20	20.0	20.2	19.7	20.4	20.5	20.4	20.7	19.9
7/12/2020	21	20.0	20.1	19.3	20.0	20.1	20.0	20.6	19.9
7/12/2020	22	20.0	20.1	19.1	19.5	19.6	19.5	20.5	19.9
7/12/2020	23	19.9	20.1	19.0	19.1	19.2	19.1	20.5	19.9
7/12/2020	24	19.9	20.0	18.9	18.9	18.9	18.8	20.4	19.8
7/13/2020	1	19.8	20.0	18.9	18.7	18.8	18.7	20.3	19.7
7/13/2020	2	19.8	19.9	18.8	18.7	18.7	18.6	20.3	19.7
7/13/2020	3	19.8	19.9	18.8	18.7	18.7	18.5	20.3	19.7
7/13/2020	4	19.7	19.8	18.7	18.5	18.6	18.4	20.3	19.6
7/13/2020	5	19.7	19.8	18.6	18.5	18.5	18.3	20.4	19.5
7/13/2020	6	19.7	19.7	18.5	18.4	18.4	18.3	20.4	19.5
7/13/2020	7	19.6	19.7	18.6	18.4	18.3	18.3	20.4	19.7
7/13/2020	8	19.6	19.7	18.9	18.4	18.4	18.3	20.4	19.7
7/13/2020	9	19.6	19.7	19.3	18.6	18.5	18.5	20.4	19.7
7/13/2020	10	19.6	19.7	19.9	19.0	18.8	18.9	20.4	19.7
7/13/2020	11	19.5	19.7	20.7	19.7	19.4	19.6	20.4	19.7
7/13/2020	12	19.5	19.8	21.2	20.5	20.2	20.4	20.4	19.7
7/13/2020	13	19.6	19.8	21.6	21.3	21.0	21.2	20.4	19.8
7/13/2020	14	19.7	19.9	21.8	21.9	21.6	21.9	20.4	19.9
7/13/2020	15	19.8	20.1	21.9	22.1	22.0	22.3	20.4	20.0
7/13/2020	16	19.9	20.2	21.8	22.3	22.2	22.4	20.5	20.1
7/13/2020	17	20.1	20.3	21.6	22.1	22.1	22.3	20.5	20.2
7/13/2020	18	20.1	20.3	21.2	21.8	21.9	22.1	20.5	20.2
7/13/2020	19	20.0	20.2	20.8	21.4	21.5	21.5	20.5	20.2
7/13/2020	20	20.0	20.2	20.2	21.0	21.1	21.1	20.6	20.2
7/13/2020	21	20.0	20.2	19.8	20.6	20.7	20.7	20.6	20.1
7/13/2020	22	20.0	20.1	19.6	20.1	20.2	20.2	20.6	20.1
7/13/2020	23	20.0	20.1	19.4	19.7	19.8	19.8	20.6	20.0
7/13/2020	24	19.9	20.1	19.3	19.5	19.6	19.5	20.6	20.0
7/14/2020	1	19.9	20.0	19.1	19.3	19.3	19.2	20.6	20.0
7/14/2020	2	19.9	20.0	19.1	19.1	19.2	19.1	20.6	19.9
7/14/2020	3	19.9	20.0	19.0	19.0	19.0	18.9	20.6	19.9
7/14/2020	4	19.8	19.9	19.0	18.9	18.9	18.8	20.5	19.9
7/14/2020	5	19.8	19.9	18.9	18.9	18.9	18.8	20.5	19.8
7/14/2020	6	19.8	19.9	18.9	18.8	18.8	18.7	20.5	19.8
7/14/2020	7	19.8	19.9	18.9	18.8	18.8	18.7	20.5	19.9
7/14/2020	8	19.8	19.9	19.2	18.8	18.8	18.8	20.5	19.8
7/14/2020	9	19.8	19.9	19.6	19.0	18.9	19.0	20.5	19.9
7/14/2020	10	19.7	19.9	20.3	19.4	19.2	19.4	20.5	19.8
7/14/2020	11	19.7	19.9	21.0	20.1	19.8	20.0	20.6	19.9
7/14/2020	12	19.6	19.9	21.6	21.0	20.7	20.9	20.6	19.9
7/14/2020	13	19.7	19.9	22.0	21.7	21.5	21.7	20.6	19.9
7/14/2020	14	19.7	20.0	22.2	22.3	22.1	22.3	20.6	20.0
7/14/2020	15	19.7	20.0	22.3	22.6	22.4	22.7	20.6	20.1
7/14/2020	16	19.8	20.1	22.1	22.7	22.6	22.8	20.6	20.2
7/14/2020	17	19.8	20.1	21.7	22.6	22.6	22.8	20.7	20.2

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/14/2020	18	19.8	20.1	21.4	22.3	22.3	22.5	20.7	20.2
7/14/2020	19	19.9	20.1	20.8	21.7	21.8	21.8	20.7	20.2
7/14/2020	20	19.9	20.1	20.3	21.3	21.4	21.4	20.8	20.3
7/14/2020	21	19.9	20.0	19.9	20.7	20.9	20.8	20.8	20.3
7/14/2020	22	19.9	20.0	19.7	20.3	20.4	20.4	20.8	20.3
7/14/2020	23	19.8	20.0	19.5	19.9	20.0	20.0	20.8	20.2
7/14/2020	24	19.8	20.0	19.3	19.7	19.7	19.7	20.8	20.2
7/15/2020	1	19.8	20.0	19.2	19.4	19.5	19.4	20.8	20.2
7/15/2020	2	19.9	20.1	19.0	19.2	19.3	19.2	20.7	20.2
7/15/2020	3	19.9	20.1	19.0	19.1	19.1	19.1	20.7	20.2
7/15/2020	4	19.9	20.1	18.9	18.9	19.0	18.9	20.6	20.2
7/15/2020	5	19.9	20.0	18.9	18.8	18.8	18.8	20.6	20.1
7/15/2020	6	19.8	20.0	18.9	18.8	18.8	18.7	20.6	20.0
7/15/2020	7	19.8	20.0	19.1	18.8	18.8	18.7	20.5	20.0
7/15/2020	8	19.8	20.0	19.4	18.9	18.9	18.9	20.6	19.9
7/15/2020	9	19.8	20.0	19.9	19.2	19.1	19.2	20.6	19.9
7/15/2020	10	19.7	20.0	20.5	19.7	19.5	19.6	20.6	19.9
7/15/2020	11	19.7	20.0	21.2	20.3	20.1	20.3	20.6	19.9
7/15/2020	12	19.8	20.0	21.8	21.2	20.9	21.1	20.7	20.0
7/15/2020	13	19.9	20.2	22.3	22.0	21.7	22.0	20.7	20.1
7/15/2020	14	19.9	20.2	22.6	22.6	22.4	22.7	20.7	20.2
7/15/2020	15	20.0	20.3	22.7	23.0	22.8	23.1	20.8	20.4
7/15/2020	16	20.1	20.4	22.6	23.2	23.1	23.4	20.9	20.5
7/15/2020	17	20.2	20.5	22.3	23.2	23.1	23.4	21.0	20.6
7/15/2020	18	20.3	20.6	22.0	22.9	22.9	23.1	21.0	20.7
7/15/2020	19	20.3	20.5	21.4	22.3	22.4	22.5	21.1	20.7
7/15/2020	20	20.3	20.6	20.9	21.9	22.0	22.1	21.2	20.7
7/15/2020	21	20.3	20.5	20.4	21.4	21.6	21.6	21.3	20.8
7/15/2020	22	20.4	20.7	20.1	20.9	21.0	21.0	21.3	20.8
7/15/2020	23	20.5	20.7	20.0	20.4	20.5	20.5	21.3	20.7
7/15/2020	24	20.5	20.7	19.9	20.1	20.2	20.2	21.2	20.7
7/16/2020	1	20.5	20.7	19.9	20.0	20.0	20.0	21.2	20.6
7/16/2020	2	20.4	20.6	19.9	19.9	19.9	19.9	21.1	20.6
7/16/2020	3	20.4	20.5	19.8	19.9	19.9	19.8	21.1	20.5
7/16/2020	4	20.3	20.5	19.7	19.8	19.8	19.8	21.0	20.5
7/16/2020	5	20.3	20.4	19.7	19.8	19.8	19.7	21.0	20.4
7/16/2020	6	20.2	20.4	19.6	19.7	19.7	19.7	20.9	20.4
7/16/2020	7	20.2	20.4	19.7	19.7	19.6	19.6	21.0	20.3
7/16/2020	8	20.2	20.4	20.0	19.7	19.7	19.7	21.0	20.3
7/16/2020	9	20.2	20.4	20.3	20.0	19.8	19.9	21.1	20.3
7/16/2020	10	20.2	20.5	20.9	20.3	20.2	20.3	21.1	20.4
7/16/2020	11	20.3	20.6	21.7	20.9	20.7	20.9	21.1	20.4
7/16/2020	12	20.4	20.7	22.3	21.7	21.4	21.7	21.2	20.6
7/16/2020	13	20.5	20.8	22.8	22.5	22.3	22.5	21.2	20.7
7/16/2020	14	20.6	20.9	22.6	22.9	22.8	22.9	21.3	20.7
7/16/2020	15	20.7	21.1	22.8	23.2	23.1	23.3	21.3	20.9
7/16/2020	16	20.9	21.2	22.4	23.1	23.1	23.2	21.4	21.0

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/16/2020	17	20.9	21.2	22.2	22.9	22.9	23.0	21.4	21.1
7/16/2020	18	21.0	21.2	21.8	22.4	22.5	22.6	21.5	21.2
7/16/2020	19	21.0	21.2	21.4	22.1	22.1	22.2	21.6	21.2
7/16/2020	20	21.0	21.2	21.0	21.6	21.7	21.7	21.6	21.2
7/16/2020	21	21.0	21.2	20.7	21.2	21.3	21.2	21.7	21.2
7/16/2020	22	21.0	21.2	20.5	20.9	20.9	20.9	21.7	21.1
7/16/2020	23	20.9	21.1	20.5	20.6	20.7	20.6	21.7	21.1
7/16/2020	24	20.9	21.1	20.4	20.4	20.5	20.4	21.6	21.0
7/17/2020	1	20.8	21.0	20.4	20.4	20.4	20.4	21.6	20.9
7/17/2020	2	20.8	21.0	20.3	20.4	20.4	20.4	21.5	20.9
7/17/2020	3	20.8	20.9	20.3	20.3	20.3	20.3	21.5	20.9
7/17/2020	4	20.8	20.9	20.2	20.3	20.3	20.2	21.4	20.8
7/17/2020	5	20.8	20.9	20.1	20.2	20.2	20.2	21.4	20.8
7/17/2020	6	20.7	20.9	20.1	20.1	20.1	20.1	21.3	20.8
7/17/2020	7	20.7	20.9	20.3	20.1	20.1	20.1	21.3	20.9
7/17/2020	8	20.7	20.9	20.4	20.2	20.2	20.2	21.4	20.8
7/17/2020	9	20.6	20.8	20.7	20.4	20.3	20.3	21.4	20.8
7/17/2020	10	20.6	20.9	21.0	20.7	20.6	20.7	21.4	20.8
7/17/2020	11	20.6	20.9	21.7	21.1	21.0	21.1	21.4	20.8
7/17/2020	12	20.7	21.0	22.3	21.7	21.5	21.7	21.5	20.9
7/17/2020	13	20.8	21.1	22.8	22.5	22.2	22.4	21.5	21.0
7/17/2020	14	20.9	21.3	23.0	23.0	22.8	23.0	21.6	21.1
7/17/2020	15	21.1	21.4	23.2	23.4	23.2	23.4	21.7	21.2
7/17/2020	16	21.2	21.5	23.1	23.6	23.5	23.7	21.7	21.3
7/17/2020	17	21.2	21.5	22.9	23.5	23.5	23.7	21.8	21.4
7/17/2020	18	21.3	21.6	22.5	23.2	23.3	23.4	21.8	21.5
7/17/2020	19	21.3	21.6	22.0	22.8	22.8	22.8	21.9	21.5
7/17/2020	20	21.4	21.7	21.4	22.3	22.4	22.4	22.0	21.6
7/17/2020	21	21.4	21.6	21.0	21.9	22.0	22.0	22.0	21.6
7/17/2020	22	21.4	21.5	20.7	21.3	21.4	21.4	22.1	21.5
7/17/2020	23	21.3	21.5	20.5	20.8	20.9	20.8	22.1	21.4
7/17/2020	24	21.3	21.5	20.3	20.5	20.6	20.5	22.0	21.3
7/18/2020	1	21.3	21.4	20.2	20.3	20.3	20.2	21.9	21.3
7/18/2020	2	21.2	21.4	20.2	20.2	20.2	20.1	21.9	21.2
7/18/2020	3	21.2	21.3	20.1	20.1	20.1	20.0	21.8	21.2
7/18/2020	4	21.2	21.3	20.1	20.0	20.0	20.0	21.8	21.2
7/18/2020	5	21.1	21.3	20.0	20.0	20.0	19.9	21.7	21.1
7/18/2020	6	21.1	21.2	20.1	19.9	19.9	19.8	21.7	21.1
7/18/2020	7	21.1	21.2	20.2	19.9	19.9	19.8	21.7	21.2
7/18/2020	8	21.1	21.3	20.5	20.1	20.0	20.0	21.7	21.2
7/18/2020	9	21.0	21.2	20.9	20.3	20.2	20.3	21.7	21.2
7/18/2020	10	20.9	21.2	21.5	20.7	20.6	20.7	21.7	21.1
7/18/2020	11	20.9	21.2	22.2	21.3	21.1	21.3	21.8	21.1
7/18/2020	12	20.9	21.2	22.7	22.2	21.9	22.1	21.8	21.2
7/18/2020	13	21.0	21.4	23.2	22.9	22.6	22.9	21.8	21.2
7/18/2020	14	21.1	21.4	23.4	23.5	23.3	23.5	21.8	21.3
7/18/2020	15	21.2	21.5	23.4	23.8	23.7	23.9	21.9	21.4

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/18/2020	16	21.3	21.6	23.4	23.9	23.9	24.1	21.9	21.5
7/18/2020	17	21.4	21.6	23.2	23.8	23.8	24.0	22.0	21.6
7/18/2020	18	21.4	21.7	22.9	23.5	23.6	23.7	22.0	21.6
7/18/2020	19	21.4	21.7	22.4	23.2	23.2	23.3	22.1	21.7
7/18/2020	20	21.5	21.7	21.8	22.8	22.9	22.9	22.1	21.7
7/18/2020	21	21.5	21.7	21.5	22.4	22.5	22.5	22.2	21.7
7/18/2020	22	21.5	21.7	21.2	21.9	22.0	22.0	22.2	21.7
7/18/2020	23	21.5	21.7	21.1	21.5	21.6	21.6	22.2	21.7
7/18/2020	24	21.5	21.7	20.9	21.2	21.3	21.2	22.1	21.7
7/19/2020	1	21.4	21.6	20.8	21.0	21.1	21.0	22.1	21.6
7/19/2020	2	21.4	21.6	20.7	20.9	20.9	20.9	22.0	21.6
7/19/2020	3	21.3	21.5	20.7	20.8	20.8	20.7	22.0	21.5
7/19/2020	4	21.3	21.5	20.7	20.7	20.7	20.6	21.9	21.5
7/19/2020	5	21.3	21.4	20.7	20.7	20.6	20.6	21.9	21.4
7/19/2020	6	21.2	21.3	20.6	20.6	20.6	20.5	21.9	21.3
7/19/2020	7	21.1	21.3	20.6	20.6	20.6	20.5	21.9	21.3
7/19/2020	8	21.1	21.3	20.9	20.6	20.6	20.6	21.9	21.2
7/19/2020	9	21.1	21.3	21.2	20.8	20.7	20.8	22.0	21.2
7/19/2020	10	21.1	21.4	21.8	21.2	21.0	21.2	22.0	21.3
7/19/2020	11	21.1	21.4	22.5	21.8	21.6	21.7	22.0	21.3
7/19/2020	12	21.2	21.5	23.0	22.5	22.3	22.5	22.1	21.4
7/19/2020	13	21.3	21.7	23.4	23.3	23.0	23.3	22.1	21.5
7/19/2020	14	21.4	21.8	23.7	23.8	23.6	23.9	22.1	21.6
7/19/2020	15	21.5	21.9	23.8	24.1	24.0	24.2	22.2	21.8
7/19/2020	16	21.6	21.9	23.7	24.2	24.1	24.4	22.3	21.9
7/19/2020	17	21.6	21.9	23.4	24.1	24.1	24.3	22.4	21.9
7/19/2020	18	21.6	21.9	23.1	23.9	23.9	24.1	22.5	21.9
7/19/2020	19	21.6	21.8	22.6	23.4	23.5	23.5	22.5	21.9
7/19/2020	20	21.6	21.7	22.1	23.0	23.1	23.1	22.5	21.8
7/19/2020	21	21.4	21.6	21.7	22.6	22.7	22.7	22.4	21.8
7/19/2020	22	21.3	21.4	21.4	22.1	22.2	22.2	22.3	21.8
7/19/2020	23	21.2	21.3	21.2	21.7	21.8	21.8	22.3	21.7
7/19/2020	24	21.1	21.2	21.0	21.5	21.5	21.5	22.2	21.6
7/20/2020	1	21.1	21.3	20.9	21.2	21.3	21.2	22.2	21.5
7/20/2020	2	21.0	21.1	20.8	21.0	21.1	21.0	22.1	21.5
7/20/2020	3	20.9	21.0	20.7	20.9	21.0	20.9	22.0	21.4
7/20/2020	4	20.8	21.0	20.6	20.8	20.8	20.8	22.0	21.3
7/20/2020	5	20.7	20.8	20.5	20.7	20.7	20.7	21.9	21.3
7/20/2020	6	20.6	20.8	20.4	20.6	20.6	20.6	21.9	21.2
7/20/2020	7	20.6	20.7	20.4	20.5	20.5	20.5	21.9	21.1
7/20/2020	8	20.5	20.7	20.6	20.5	20.5	20.5	21.8	21.1
7/20/2020	9	20.6	20.8	21.0	20.7	20.6	20.7	21.8	21.0
7/20/2020	10	20.5	20.9	21.5	21.0	20.8	21.0	21.7	21.0
7/20/2020	11	20.6	20.8	22.2	21.6	21.4	21.5	21.7	21.1
7/20/2020	12	20.6	20.8	22.7	22.3	22.0	22.3	21.7	21.3
7/20/2020	13	20.5	20.8	23.2	23.0	22.8	23.0	21.8	21.3
7/20/2020	14	20.5	20.7	23.4	23.5	23.3	23.6	21.8	21.4

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/20/2020	15	20.4	20.6	23.4	23.9	23.8	24.1	21.8	21.4
7/20/2020	16	20.3	20.5	23.3	24.0	24.0	24.2	21.9	21.3
7/20/2020	17	20.3	20.6	22.3	23.3	23.6	23.9	21.9	21.3
7/20/2020	18	20.2	20.4	21.9	22.3	22.3	22.4	22.0	21.4
7/20/2020	19	20.1	20.2	21.9	22.1	22.1	22.1	22.0	21.3
7/20/2020	20	20.0	20.1	21.3	21.8	22.0	22.0	21.9	21.2
7/20/2020	21	19.8	20.0	21.2	21.5	21.5	21.5	21.8	21.2
7/20/2020	22	19.6	19.6	20.7	21.4	21.4	21.4	21.8	21.0
7/20/2020	23	19.3	19.4	20.0	21.2	21.3	21.2	21.7	20.8
7/20/2020	24	19.2	19.5	20.6	20.5	20.4	20.3	21.6	20.8
7/21/2020	1	19.2	19.5	20.8	20.9	20.8	20.8	21.5	20.8
7/21/2020	2	19.1	19.5	20.8	20.9	20.9	20.9	21.4	20.9
7/21/2020	3	19.1	19.4	20.9	21.0	21.0	20.9	21.5	21.0
7/21/2020	4	19.1	19.5	20.8	21.0	20.9	20.9	21.5	20.7
7/21/2020	5	19.1	19.4	20.8	20.9	20.9	20.9	21.5	20.9
7/21/2020	6	19.0	19.4	20.9	21.0	20.9	20.9	21.5	20.9
7/21/2020	7	19.0	19.4	20.9	20.9	20.9	20.9	21.5	20.7
7/21/2020	8	19.0	19.5	21.0	21.1	21.0	21.1	21.5	20.8
7/21/2020	9	19.2	19.8	21.3	21.3	21.2	21.2	21.6	20.8
7/21/2020	10	19.4	19.9	21.7	21.6	21.5	21.6	21.6	21.2
7/21/2020	11	19.5	20.0	21.9	22.1	21.9	22.1	21.7	21.2
7/21/2020	12	19.9	20.3	22.2	22.3	22.2	22.3	21.9	21.2
7/21/2020	13	20.1	20.6	22.4	22.6	22.5	22.6	22.1	21.5
7/21/2020	14	20.3	20.9	22.6	22.8	22.7	22.8	22.3	21.6
7/21/2020	15	20.3	20.7	22.7	22.9	22.8	23.0	22.4	21.8
7/21/2020	16	20.6	21.5	22.7	22.9	22.9	23.0	22.6	21.8
7/21/2020	17	20.7	21.5	22.7	22.8	22.9	22.9	22.8	22.2
7/21/2020	18	20.9	21.4	22.7	22.9	22.9	22.9	22.8	22.3
7/21/2020	19	20.9	21.8	22.7	23.0	22.9	22.9	22.7	21.9
7/21/2020	20	21.0	21.8	22.6	22.7	22.8	22.8	22.9	22.3
7/21/2020	21	21.2	21.5	22.5	22.7	22.7	22.7	23.0	22.2
7/21/2020	22	20.9	21.8	22.5	22.6	22.6	22.5	23.1	22.2
7/21/2020	23	21.4	22.1	22.5	22.6	22.6	22.6	23.0	22.1
7/21/2020	24	21.2	22.0	22.6	22.7	22.7	22.6	23.0	22.4
7/22/2020	1	21.7	22.5	22.6	22.8	22.7	22.7	23.0	22.2
7/22/2020	2	22.2	22.7	22.6	22.7	22.7	22.7	22.9	22.6
7/22/2020	3	22.4	22.8	22.6	22.8	22.8	22.7	23.0	22.5
7/22/2020	4	22.5	22.8	22.6	22.8	22.7	22.7	23.1	22.6
7/22/2020	5	22.6	22.8	22.6	22.8	22.7	22.7	23.1	22.6
7/22/2020	6	22.6	22.9	22.6	22.8	22.7	22.7	23.2	22.7
7/22/2020	7	22.7	22.9	22.7	22.8	22.7	22.7	23.3	22.7
7/22/2020	8	22.7	22.9	22.8	22.8	22.8	22.8	23.3	22.7
7/22/2020	9	22.8	23.0	22.9	23.0	22.9	23.0	23.4	22.8
7/22/2020	10	22.8	23.0	23.1	23.2	23.2	23.2	23.5	22.9
7/22/2020	11	22.8	23.1	23.3	23.4	23.4	23.4	23.6	22.9
7/22/2020	12	22.9	23.2	23.4	23.6	23.5	23.7	23.7	23.0
7/22/2020	13	23.0	23.2	23.6	23.8	23.7	23.8	23.8	23.1

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/22/2020	14	23.0	23.4	23.7	23.9	23.8	23.9	23.9	23.2
7/22/2020	15	23.2	23.5	23.7	23.9	23.9	24.0	24.0	23.3
7/22/2020	16	23.4	23.6	23.8	23.9	23.9	24.0	24.1	23.4
7/22/2020	17	23.5	23.7	23.7	23.9	23.9	23.9	24.2	23.6
7/22/2020	18	23.5	23.7	23.7	23.8	23.8	23.8	24.2	23.6
7/22/2020	19	23.5	23.7	23.5	23.7	23.7	23.7	24.2	23.6
7/22/2020	20	23.4	23.6	23.4	23.5	23.6	23.5	24.1	23.5
7/22/2020	21	23.3	23.5	23.3	23.4	23.4	23.3	24.0	23.5
7/22/2020	22	23.3	23.4	23.3	23.3	23.3	23.3	23.9	23.4
7/22/2020	23	23.2	23.4	23.2	23.3	23.3	23.3	23.9	23.3
7/22/2020	24	23.1	23.2	23.0	23.2	23.2	23.1	23.8	23.2
7/23/2020	1	23.0	23.2	22.9	23.0	23.0	23.0	23.7	23.1
7/23/2020	2	23.0	23.1	22.8	22.9	22.9	22.8	23.6	23.0
7/23/2020	3	22.9	23.0	22.8	22.9	22.8	22.8	23.6	23.0
7/23/2020	4	22.8	22.9	22.7	22.8	22.8	22.7	23.5	22.9
7/23/2020	5	22.8	22.9	22.6	22.7	22.7	22.7	23.5	22.8
7/23/2020	6	22.7	22.8	22.6	22.7	22.6	22.6	23.5	22.8
7/23/2020	7	22.6	22.8	22.5	22.6	22.6	22.6	23.4	22.8
7/23/2020	8	22.6	22.8	22.6	22.6	22.6	22.6	23.4	22.8
7/23/2020	9	22.6	22.8	22.8	22.8	22.7	22.7	23.4	22.8
7/23/2020	10	22.6	22.8	23.0	23.0	22.9	22.9	23.3	22.8
7/23/2020	11	22.7	22.9	23.2	23.2	23.1	23.2	23.4	22.8
7/23/2020	12	22.7	22.9	23.4	23.5	23.4	23.5	23.5	22.9
7/23/2020	13	22.8	23.0	23.6	23.7	23.6	23.8	23.6	23.0
7/23/2020	14	22.9	23.1	23.7	23.9	23.9	24.0	23.6	23.1
7/23/2020	15	23.0	23.3	23.8	24.0	24.0	24.1	23.7	23.2
7/23/2020	16	23.1	23.4	23.8	24.0	24.0	24.1	23.8	23.3
7/23/2020	17	23.2	23.4	23.7	23.9	23.9	24.0	23.9	23.3
7/23/2020	18	23.3	23.5	23.5	23.7	23.7	23.7	24.0	23.4
7/23/2020	19	23.3	23.5	23.3	23.5	23.5	23.4	23.9	23.4
7/23/2020	20	23.3	23.4	23.0	23.2	23.3	23.2	23.9	23.4
7/23/2020	21	23.2	23.4	22.9	22.9	23.0	22.9	23.8	23.4
7/23/2020	22	23.2	23.3	22.8	22.8	22.8	22.7	23.7	23.3
7/23/2020	23	23.1	23.3	22.7	22.7	22.7	22.6	23.7	23.2
7/23/2020	24	23.1	23.2	22.7	22.7	22.7	22.6	23.6	23.1
7/24/2020	1	23.0	23.1	22.6	22.6	22.6	22.6	23.6	23.1
7/24/2020	2	22.9	23.0	22.5	22.5	22.5	22.4	23.5	22.9
7/24/2020	3	22.8	22.9	22.4	22.4	22.4	22.3	23.5	22.8
7/24/2020	4	22.7	22.8	22.3	22.3	22.3	22.3	23.4	22.8
7/24/2020	5	22.6	22.8	22.3	22.3	22.3	22.2	23.3	22.7
7/24/2020	6	22.6	22.7	22.2	22.2	22.2	22.2	23.3	22.7
7/24/2020	7	22.5	22.7	22.2	22.2	22.2	22.1	23.2	22.6
7/24/2020	8	22.5	22.6	22.3	22.2	22.2	22.2	23.1	22.6
7/24/2020	9	22.4	22.6	22.2	22.3	22.3	22.3	23.1	22.5
7/24/2020	10	22.4	22.5	22.3	22.3	22.3	22.3	23.0	22.5
7/24/2020	11	22.3	22.5	22.5	22.5	22.4	22.4	23.0	22.4
7/24/2020	12	22.3	22.5	22.9	22.8	22.6	22.7	23.0	22.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/24/2020	13	22.3	22.5	23.2	23.2	23.1	23.2	23.0	22.5
7/24/2020	14	22.4	22.6	23.4	23.4	23.4	23.4	23.0	22.5
7/24/2020	15	22.3	22.5	23.3	23.5	23.5	23.6	23.0	22.4
7/24/2020	16	22.0	22.0	23.1	23.4	23.4	23.5	23.0	22.5
7/24/2020	17	22.0	22.3	22.9	23.2	23.2	23.2	23.0	22.4
7/24/2020	18	21.9	21.8	22.6	22.8	22.9	22.9	22.9	22.4
7/24/2020	19	21.8	22.0	22.1	22.5	22.6	22.5	22.9	22.3
7/24/2020	20	22.1	22.2	21.6	22.0	22.2	22.1	22.8	22.3
7/24/2020	21	22.1	22.3	21.3	21.5	21.7	21.6	22.7	22.2
7/24/2020	22	22.1	22.2	21.1	21.2	21.2	21.2	22.6	22.2
7/24/2020	23	22.0	22.1	21.1	21.0	21.0	20.9	22.6	22.0
7/24/2020	24	22.0	22.0	21.0	20.9	20.9	20.8	22.5	22.0
7/25/2020	1	21.9	21.9	21.0	20.8	20.8	20.7	22.4	21.9
7/25/2020	2	21.8	21.8	20.9	20.8	20.7	20.7	22.4	21.8
7/25/2020	3	21.7	21.7	20.8	20.7	20.7	20.6	22.3	21.7
7/25/2020	4	21.6	21.7	20.8	20.7	20.7	20.6	22.3	21.7
7/25/2020	5	21.6	21.7	20.7	20.6	20.6	20.5	22.2	21.7
7/25/2020	6	21.5	21.6	20.7	20.6	20.6	20.5	22.2	21.6
7/25/2020	7	21.5	21.5	20.7	20.6	20.6	20.5	22.1	21.5
7/25/2020	8	21.4	21.5	20.9	20.6	20.6	20.6	22.1	21.5
7/25/2020	9	21.4	21.6	21.2	20.7	20.7	20.7	22.1	21.5
7/25/2020	10	21.4	21.6	21.7	21.0	20.9	21.0	22.0	21.5
7/25/2020	11	21.4	21.6	22.3	21.6	21.3	21.5	22.1	21.6
7/25/2020	12	21.5	21.7	22.8	22.3	22.0	22.2	22.2	21.6
7/25/2020	13	21.6	21.9	23.3	22.9	22.7	22.9	22.3	21.8
7/25/2020	14	21.7	22.0	23.6	23.5	23.3	23.5	22.4	21.9
7/25/2020	15	21.8	22.0	23.7	23.8	23.7	23.9	22.4	22.0
7/25/2020	16	21.9	22.2	23.7	24.0	23.9	24.1	22.5	22.1
7/25/2020	17	22.0	22.2	23.4	24.0	24.0	24.1	22.6	22.2
7/25/2020	18	22.0	22.2	23.1	23.8	23.8	23.9	22.7	22.2
7/25/2020	19	22.0	22.2	22.7	23.3	23.4	23.4	22.6	22.2
7/25/2020	20	22.0	22.2	22.2	23.0	23.0	23.0	22.6	22.2
7/25/2020	21	22.0	22.1	21.8	22.5	22.7	22.6	22.5	22.1
7/25/2020	22	22.0	22.1	21.5	22.1	22.2	22.1	22.5	22.0
7/25/2020	23	21.9	22.0	21.3	21.7	21.7	21.7	22.5	22.0
7/25/2020	24	21.9	21.9	21.2	21.4	21.5	21.4	22.4	21.9
7/26/2020	1	21.8	21.8	21.1	21.2	21.2	21.2	22.4	21.8
7/26/2020	2	21.7	21.7	21.0	21.1	21.1	21.0	22.3	21.8
7/26/2020	3	21.6	21.7	20.9	20.9	21.0	20.9	22.2	21.7
7/26/2020	4	21.6	21.6	20.8	20.8	20.8	20.7	22.2	21.7
7/26/2020	5	21.5	21.5	20.7	20.7	20.7	20.6	22.1	21.6
7/26/2020	6	21.4	21.4	20.6	20.6	20.6	20.5	22.0	21.5
7/26/2020	7	21.3	21.4	20.6	20.5	20.5	20.4	22.0	21.4
7/26/2020	8	21.3	21.4	20.8	20.6	20.5	20.5	21.9	21.3
7/26/2020	9	21.2	21.3	21.2	20.7	20.6	20.6	21.8	21.3
7/26/2020	10	21.2	21.3	21.8	21.0	20.9	21.0	21.8	21.2
7/26/2020	11	21.1	21.3	22.4	21.7	21.4	21.6	21.8	21.2

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/26/2020	12	21.0	21.2	23.0	22.4	22.2	22.4	21.9	21.2
7/26/2020	13	21.0	21.2	23.4	23.2	22.9	23.2	22.0	21.3
7/26/2020	14	21.0	21.1	23.6	23.7	23.5	23.8	22.0	21.4
7/26/2020	15	20.9	21.1	23.6	24.0	23.9	24.1	22.1	21.5
7/26/2020	16	21.0	21.2	23.4	24.1	24.0	24.3	22.2	21.6
7/26/2020	17	21.0	21.2	23.0	23.9	24.0	24.2	22.3	21.7
7/26/2020	18	21.1	21.3	22.6	23.6	23.6	23.8	22.3	21.8
7/26/2020	19	21.2	21.4	22.1	23.0	23.1	23.2	22.3	21.8
7/26/2020	20	21.4	21.3	21.6	22.5	22.7	22.7	22.3	21.9
7/26/2020	21	21.3	21.4	21.2	22.0	22.2	22.2	22.2	21.9
7/26/2020	22	21.2	21.2	21.1	21.6	21.7	21.7	22.2	21.8
7/26/2020	23	21.2	21.3	20.9	21.2	21.3	21.2	22.2	21.7
7/26/2020	24	21.0	21.1	20.8	21.0	21.1	21.0	22.1	21.7
7/27/2020	1	21.0	21.0	20.6	20.8	20.9	20.8	22.1	21.6
7/27/2020	2	21.0	21.0	20.5	20.7	20.7	20.7	22.0	21.5
7/27/2020	3	20.8	20.9	20.3	20.5	20.6	20.5	21.9	21.4
7/27/2020	4	20.8	20.7	20.2	20.3	20.4	20.3	21.8	21.3
7/27/2020	5	20.7	20.7	20.1	20.2	20.2	20.2	21.7	21.1
7/27/2020	6	20.5	20.5	20.0	20.1	20.2	20.1	21.6	21.0
7/27/2020	7	20.5	20.6	19.9	20.0	20.0	20.0	21.5	20.8
7/27/2020	8	20.5	20.6	20.2	20.0	20.0	20.0	21.4	20.8
7/27/2020	9	20.4	20.6	20.6	20.1	20.0	20.1	21.3	20.7
7/27/2020	10	20.4	20.5	21.2	20.5	20.3	20.5	21.3	20.7
7/27/2020	11	20.3	20.5	21.9	21.2	20.9	21.1	21.4	20.8
7/27/2020	12	20.3	20.5	22.5	21.9	21.6	21.9	21.5	20.8
7/27/2020	13	20.3	20.5	23.1	22.7	22.3	22.7	21.6	21.0
7/27/2020	14	20.3	20.7	23.6	23.4	23.0	23.4	21.8	21.2
7/27/2020	15	20.5	20.8	23.9	23.8	23.5	24.1	21.9	21.3
7/27/2020	16	20.5	20.7	24.0	24.1	23.9	24.5	22.0	21.5
7/27/2020	17	20.5	20.7	23.9	24.2	24.2	25.0	22.1	21.7
7/27/2020	18	20.5	20.8	23.5	24.3	24.2	25.7	22.2	21.7
7/27/2020	19	20.5	20.8	23.0	24.1	24.1	25.0	22.2	21.7
7/27/2020	20	20.5	20.7	22.3	23.8	23.8	24.7	22.1	21.6
7/27/2020	21	20.4	20.4	21.6	23.5	23.5	24.6	22.1	21.7
7/27/2020	22	20.3	20.3	20.9	23.0	23.2	24.1	22.1	21.7
7/27/2020	23	20.2	20.3	20.5	22.4	22.6	23.6	22.1	21.5
7/27/2020	24	20.3	20.7	20.2	21.8	22.0	22.5	22.0	21.6
7/28/2020	1	20.6	20.9	20.0	21.2	21.4	21.8	22.1	21.6
7/28/2020	2	20.6	20.8	19.8	20.8	21.0	21.0	22.1	21.7
7/28/2020	3	20.5	20.8	19.7	20.5	20.6	20.5	22.1	21.6
7/28/2020	4	20.7	20.9	19.6	20.2	20.3	20.2	22.2	21.7
7/28/2020	5	20.9	21.1	19.7	20.0	20.1	19.9	22.2	21.7
7/28/2020	6	21.0	21.2	19.6	19.8	19.9	19.7	22.2	21.7
7/28/2020	7	21.1	21.3	19.7	19.7	19.8	19.7	22.3	21.7
7/28/2020	8	21.2	21.4	20.1	19.9	19.8	20.2	22.3	21.8
7/28/2020	9	21.2	21.5	20.7	20.1	20.0	20.7	22.4	21.8
7/28/2020	10	21.3	21.7	21.4	20.3	20.2	21.5	22.4	21.8

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/28/2020	11	21.2	21.4	22.3	20.7	20.5	22.0	22.5	21.9
7/28/2020	12	21.5	21.9	23.3	21.5	21.1	22.9	22.5	22.0
7/28/2020	13	21.5	21.7	24.1	22.3	21.9	23.8	22.6	22.1
7/28/2020	14	21.4	21.4	24.7	23.2	22.7	24.4	22.7	22.2
7/28/2020	15	21.0	21.4	25.0	23.9	23.5	25.4	22.7	22.2
7/28/2020	16	21.2	21.7	25.1	24.4	24.1	26.1	22.8	22.4
7/28/2020	17	21.3	21.5	24.8	24.8	24.6	26.5	22.9	22.6
7/28/2020	18	21.3	21.8	24.1	25.0	24.8	26.5	23.0	22.5
7/28/2020	19	21.9	22.1	23.4	24.8	24.8	25.8	23.1	22.6
7/28/2020	20	22.0	22.2	22.5	24.4	24.4	25.2	23.2	22.7
7/28/2020	21	22.2	22.3	21.7	23.8	24.0	24.7	23.2	22.7
7/28/2020	22	22.3	22.5	21.3	23.2	23.4	24.0	23.2	22.6
7/28/2020	23	22.4	22.6	21.1	22.6	22.8	23.0	23.1	22.6
7/28/2020	24	22.5	22.6	20.9	22.0	22.2	22.5	23.1	22.6
7/29/2020	1	22.4	22.5	20.8	21.5	21.7	21.8	23.1	22.4
7/29/2020	2	22.4	22.5	20.8	21.2	21.3	21.3	23.0	22.4
7/29/2020	3	22.4	22.5	20.7	20.9	21.1	20.8	23.0	22.4
7/29/2020	4	22.4	22.5	20.7	20.7	20.9	20.6	23.0	22.4
7/29/2020	5	22.3	22.4	20.6	20.6	20.7	20.4	22.9	22.3
7/29/2020	6	22.3	22.4	20.6	20.5	20.6	20.3	22.9	22.3
7/29/2020	7	22.3	22.4	20.6	20.5	20.5	20.2	22.9	22.4
7/29/2020	8	22.3	22.4	20.8	20.5	20.5	20.6	22.9	22.4
7/29/2020	9	22.3	22.5	21.3	20.7	20.6	21.2	22.9	22.4
7/29/2020	10	22.3	22.5	22.1	20.9	20.7	21.7	22.9	22.4
7/29/2020	11	22.3	22.6	22.9	21.2	21.0	22.4	23.0	22.5
7/29/2020	12	22.4	22.7	23.8	21.9	21.6	23.1	23.1	22.6
7/29/2020	13	22.5	22.8	24.7	22.8	22.4	23.7	23.2	22.7
7/29/2020	14	22.5	22.9	25.4	23.7	23.3	24.6	23.2	22.8
7/29/2020	15	22.6	22.9	25.8	24.5	24.1	25.7	23.3	22.8
7/29/2020	16	22.6	22.9	25.9	25.1	24.8	26.8	23.4	22.9
7/29/2020	17	22.6	22.8	25.7	25.5	25.3	27.2	23.4	22.9
7/29/2020	18	22.5	22.8	25.2	25.8	25.6	27.1	23.5	22.9
7/29/2020	19	22.4	22.5	24.6	25.7	25.6	26.3	23.5	22.8
7/29/2020	20	22.2	22.4	23.7	25.3	25.4	26.0	23.4	22.8
7/29/2020	21	22.1	22.2	23.1	25.0	25.0	25.5	23.4	22.8
7/29/2020	22	22.1	22.2	22.4	24.4	24.6	24.7	23.3	22.7
7/29/2020	23	21.8	21.9	21.9	23.8	24.0	24.0	23.3	22.6
7/29/2020	24	21.8	22.0	21.6	23.2	23.4	23.3	23.2	22.6
7/30/2020	1	21.7	21.8	21.3	22.6	22.8	22.7	23.2	22.6
7/30/2020	2	21.6	21.7	21.2	22.1	22.3	22.2	23.1	22.6
7/30/2020	3	21.5	21.6	21.0	21.7	21.9	21.7	23.1	22.6
7/30/2020	4	21.5	21.6	20.8	21.4	21.6	21.3	23.1	22.5
7/30/2020	5	21.4	21.5	20.7	21.2	21.3	21.0	23.1	22.5
7/30/2020	6	21.4	21.5	20.5	21.0	21.1	20.8	23.1	22.5
7/30/2020	7	21.7	22.1	20.4	20.8	20.9	20.7	23.1	22.5
7/30/2020	8	22.1	22.4	20.7	20.8	20.8	21.2	23.1	22.6
7/30/2020	9	22.1	22.2	21.1	20.8	20.8	21.5	23.1	22.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/30/2020	10	21.9	22.1	21.7	20.9	20.8	21.8	23.2	22.5
7/30/2020	11	22.0	22.2	22.8	21.3	21.1	22.6	23.2	22.4
7/30/2020	12	22.1	22.4	23.6	21.8	21.6	23.0	23.3	22.6
7/30/2020	13	22.1	22.4	24.5	22.7	22.3	24.0	23.3	22.6
7/30/2020	14	22.2	22.5	25.0	23.6	23.2	24.9	23.4	22.7
7/30/2020	15	22.2	22.6	25.4	24.3	24.0	25.9	23.4	22.8
7/30/2020	16	22.3	22.6	25.5	24.9	24.6	26.5	23.5	22.9
7/30/2020	17	22.3	22.6	25.4	25.3	25.1	27.3	23.5	22.9
7/30/2020	18	22.3	22.6	25.0	25.6	25.4	27.1	23.5	22.9
7/30/2020	19	22.4	22.5	24.4	25.5	25.4	26.4	23.5	23.0
7/30/2020	20	22.3	22.5	23.6	25.2	25.2	26.0	23.5	23.0
7/30/2020	21	22.4	22.6	22.9	24.8	24.9	25.9	23.4	23.0
7/30/2020	22	22.3	22.5	22.4	24.3	24.4	25.6	23.4	22.9
7/30/2020	23	22.3	22.4	22.1	23.7	23.9	24.9	23.4	22.8
7/30/2020	24	22.2	22.3	21.8	23.1	23.3	23.9	23.4	22.8
7/31/2020	1	22.1	22.3	21.6	22.7	22.8	23.1	23.4	22.8
7/31/2020	2	22.1	22.2	21.5	22.3	22.4	22.5	23.3	22.8
7/31/2020	3	22.0	22.1	21.3	22.0	22.1	22.0	23.2	22.7
7/31/2020	4	22.0	22.1	21.2	21.7	21.8	21.7	23.2	22.7
7/31/2020	5	21.9	22.1	21.2	21.5	21.6	21.5	23.1	22.7
7/31/2020	6	21.9	22.0	21.2	21.4	21.5	21.4	23.1	22.7
7/31/2020	7	21.9	22.1	21.2	21.3	21.4	21.3	23.0	22.3
7/31/2020	8	22.0	22.2	21.4	21.4	21.4	21.9	23.0	22.4
7/31/2020	9	21.9	22.0	21.6	21.4	21.4	21.8	23.0	22.4
7/31/2020	10	21.8	22.0	22.3	21.7	21.6	22.0	23.0	22.3
7/31/2020	11	21.7	21.9	23.1	22.1	21.9	23.0	23.0	22.3
7/31/2020	12	21.6	22.0	24.1	22.6	22.3	24.2	23.1	22.3
7/31/2020	13	21.5	21.7	24.8	23.3	22.9	24.9	23.1	22.3
7/31/2020	14	21.6	21.7	25.4	24.2	23.7	25.8	23.1	22.4
7/31/2020	15	21.4	21.6	25.6	24.8	24.5	26.6	23.1	22.5
7/31/2020	16	21.4	22.0	25.6	25.4	25.1	27.2	23.2	22.6
7/31/2020	17	21.4	21.8	25.4	25.7	25.6	27.6	23.2	22.8
7/31/2020	18	21.5	21.8	24.9	25.9	25.8	27.7	23.3	23.0
7/31/2020	19	21.6	21.7	24.1	25.6	25.6	26.8	23.4	23.0
7/31/2020	20	21.8	21.9	23.2	25.2	25.2	26.2	23.4	23.0
7/31/2020	21	21.7	21.7	22.5	24.6	24.7	25.5	23.4	23.1
7/31/2020	22	21.7	22.2	21.9	24.0	24.2	24.9	23.4	23.0
7/31/2020	23	21.8	22.0	21.5	23.4	23.5	24.1	23.4	23.0
7/31/2020	24	21.9	22.1	21.2	22.8	23.0	23.3	23.4	22.9