

**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"; "NaturalResources@ctuir.org"  
**Cc:** [Whiteman, Martha](#); [West, Todd](#); "Joseph Miller"; "Pradeep Mugunthan"  
**Subject:** Chelan River Temperature Monitoring Data - August Reports  
**Date:** Monday, September 21, 2020 12:07:57 PM  
**Attachments:** [image001.png](#)  
[2020 Chelan River Hourly Temperature Data August Report.pdf](#)  
[2020 Chelan River Daily Average Temperature Data August Report.pdf](#)

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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](http://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](mailto: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: August 2020

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

Water temperature monitoring data for August 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.

- There were four erroneous data points on August 31 that were removed from the “Tailrace” logger data.

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)
8/1/2020	22.7	23.0	22.3	22.3	22.2	22.9	23.8	23.1
8/2/2020	23.3	23.5	23.1	23.1	23.0	23.5	24.0	23.5
8/3/2020	23.3	23.5	23.2	23.1	23.0	23.5	24.0	23.4
8/4/2020	23.2	23.3	23.1	23.0	23.0	23.5	24.1	23.5
8/5/2020	22.6	22.8	23.1	23.2	23.2	23.8	23.9	23.3
8/6/2020	22.7	22.8	21.6	21.5	21.5	21.6	23.7	23.1
8/7/2020	22.5	22.6	21.9	21.5	21.5	21.6	23.1	22.5
8/8/2020	22.4	22.5	22.2	22.0	22.0	22.2	23.1	22.5
8/9/2020	22.3	22.4	22.0	21.8	21.8	22.0	23.1	22.6
8/10/2020	22.5	22.6	22.3	22.3	22.2	22.8	23.1	22.4
8/11/2020	22.3	22.4	21.8	21.7	21.7	22.0	22.9	22.1
8/12/2020	22.0	22.0	21.3	21.0	21.1	21.2	22.6	21.3
8/13/2020	21.6	21.7	21.0	20.6	20.6	20.8	22.2	21.7
8/14/2020	21.6	21.7	21.5	21.2	21.2	21.7	22.2	21.7
8/15/2020	21.9	22.0	22.2	22.1	22.1	22.8	22.6	22.0
8/16/2020	22.0	22.1	22.1	22.0	22.1	22.7	22.7	22.2
8/17/2020	21.7	21.8	22.6	22.7	22.7	23.9	22.9	22.4
8/18/2020	21.2	21.3	22.0	22.3	22.3	23.2	22.9	22.4
8/19/2020	22.4	22.5	22.1	22.0	22.0	22.8	23.5	23.0
8/20/2020	23.1	23.3	22.9	22.7	22.7	23.3	23.8	23.3
8/21/2020	23.2	23.3	22.4	22.3	22.4	22.7	23.8	23.3
8/22/2020	22.8	22.9	22.2	21.9	21.9	22.3	23.5	22.9
8/23/2020	22.6	22.6	22.4	22.1	22.2	22.6	23.5	23.1
8/24/2020	22.0	22.1	22.0	21.9	22.0	22.5	23.3	22.6
8/25/2020	22.6	22.7	22.2	22.0	22.0	22.5	23.4	22.8
8/26/2020	22.6	22.6	22.0	21.7	21.7	22.2	23.3	22.7
8/27/2020	22.5	22.5	21.9	21.6	21.7	22.2	23.2	22.6
8/28/2020	22.5	22.5	22.1	21.8	21.8	22.3	23.2	22.6
8/29/2020	22.4	22.4	21.4	21.1	21.2	21.4	23.0	22.5
8/30/2020	21.9	21.9	21.1	20.5	20.6	20.8	22.7	22.0
8/31/2020	21.6	21.7	21.3	21.0	21.0	21.4	22.3	21.7

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)
8/1/2020	1	21.6	21.7	20.9	22.2	22.4	23.1	23.4	22.9
8/1/2020	2	21.6	21.8	20.7	21.6	21.8	22.5	23.4	22.9
8/1/2020	3	21.6	21.8	20.6	21.3	21.4	21.8	23.5	22.8
8/1/2020	4	21.7	21.9	20.4	21.0	21.1	21.3	23.5	22.8
8/1/2020	5	21.8	22.1	20.2	20.7	20.8	21.1	23.5	22.8
8/1/2020	6	22.0	22.4	20.1	20.5	20.6	20.6	23.5	22.7
8/1/2020	7	22.4	22.8	20.2	20.4	20.5	20.5	23.5	22.8
8/1/2020	8	22.8	23.0	20.4	20.4	20.4	20.7	23.5	23.0
8/1/2020	9	22.8	23.1	20.9	20.4	20.4	21.2	23.6	23.0
8/1/2020	10	22.8	23.0	21.7	20.6	20.5	21.6	23.6	22.9
8/1/2020	11	22.8	23.1	22.5	20.8	20.7	22.0	23.7	23.0
8/1/2020	12	22.9	23.2	23.4	21.4	21.2	22.6	23.8	23.1
8/1/2020	13	23.0	23.3	23.6	22.0	21.7	22.7	23.8	23.1
8/1/2020	14	23.0	23.4	24.1	22.8	22.4	23.7	23.9	23.2
8/1/2020	15	23.1	23.5	24.5	23.4	23.1	24.6	23.9	23.3
8/1/2020	16	23.2	23.5	24.7	23.9	23.6	25.1	24.0	23.4
8/1/2020	17	23.3	23.5	24.5	24.2	24.0	24.8	24.0	23.4
8/1/2020	18	23.3	23.5	24.2	24.5	24.2	25.1	24.0	23.5
8/1/2020	19	23.3	23.5	23.7	24.4	24.3	25.1	24.0	23.5
8/1/2020	20	23.4	23.6	23.3	24.3	24.3	24.8	24.0	23.5
8/1/2020	21	23.4	23.5	22.8	24.0	24.0	24.5	24.0	23.5
8/1/2020	22	23.4	23.5	22.6	23.6	23.7	24.1	24.0	23.5
8/1/2020	23	23.3	23.5	22.3	23.3	23.4	23.3	24.0	23.4
8/1/2020	24	23.3	23.5	22.1	22.8	23.0	22.9	24.0	23.4
8/2/2020	1	23.3	23.4	21.9	22.5	22.6	22.4	24.0	23.4
8/2/2020	2	23.3	23.4	21.8	22.2	22.3	22.1	23.9	23.4
8/2/2020	3	23.3	23.4	21.7	21.9	22.1	21.7	23.9	23.3
8/2/2020	4	23.3	23.4	21.6	21.7	21.8	21.5	23.8	23.3
8/2/2020	5	23.2	23.3	21.5	21.5	21.7	21.2	23.8	23.3
8/2/2020	6	23.2	23.3	21.4	21.4	21.5	21.0	23.7	23.2
8/2/2020	7	23.2	23.3	21.4	21.3	21.4	21.0	23.7	23.1
8/2/2020	8	23.2	23.4	21.6	21.4	21.3	21.4	23.7	23.1
8/2/2020	9	23.2	23.4	22.0	21.5	21.4	21.8	23.8	23.1
8/2/2020	10	23.2	23.4	22.7	21.6	21.5	22.5	23.9	23.2
8/2/2020	11	23.2	23.5	23.6	21.9	21.7	23.2	24.0	23.4
8/2/2020	12	23.2	23.5	24.6	22.6	22.3	23.7	24.1	23.6
8/2/2020	13	23.3	23.6	25.4	23.4	23.0	24.3	24.2	23.8
8/2/2020	14	23.3	23.6	25.9	24.4	23.9	25.2	24.3	24.0
8/2/2020	15	23.3	23.7	26.2	25.0	24.7	26.2	24.5	24.2
8/2/2020	16	23.4	23.6	26.0	25.5	25.2	26.7	24.5	24.1
8/2/2020	17	23.4	23.6	25.4	25.8	25.6	26.4	24.4	24.0
8/2/2020	18	23.4	23.7	24.8	25.7	25.6	26.7	24.4	23.9
8/2/2020	19	23.5	23.6	23.9	25.3	25.3	25.8	24.3	23.6
8/2/2020	20	23.5	23.6	23.2	24.7	24.8	25.2	24.2	23.5
8/2/2020	21	23.5	23.6	22.5	24.1	24.2	24.3	24.1	23.4
8/2/2020	22	23.5	23.6	22.0	23.4	23.6	23.7	24.0	23.3
8/2/2020	23	23.5	23.6	21.8	22.7	22.9	23.0	23.9	23.3

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)
8/2/2020	24	23.5	23.6	21.7	22.2	22.4	22.4	23.8	23.2
8/3/2020	1	23.5	23.6	21.6	21.7	21.9	21.9	23.8	23.1
8/3/2020	2	23.5	23.6	21.5	21.5	21.7	21.6	23.8	23.1
8/3/2020	3	23.5	23.6	21.5	21.4	21.5	21.5	23.8	23.0
8/3/2020	4	23.5	23.6	21.4	21.3	21.4	21.2	23.7	23.0
8/3/2020	5	23.5	23.6	21.5	21.2	21.3	21.0	23.7	22.9
8/3/2020	6	23.5	23.6	21.4	21.1	21.2	20.9	23.7	22.8
8/3/2020	7	23.5	23.7	21.4	21.1	21.1	20.9	23.9	23.7
8/3/2020	8	23.5	23.6	21.7	21.2	21.2	21.4	24.2	23.6
8/3/2020	9	23.4	23.6	22.2	21.4	21.3	21.9	24.2	23.5
8/3/2020	10	23.3	23.5	22.8	21.6	21.5	22.5	24.2	23.4
8/3/2020	11	23.2	23.5	23.6	21.9	21.7	23.0	24.2	23.4
8/3/2020	12	23.2	23.5	24.5	22.5	22.3	23.5	24.2	23.4
8/3/2020	13	23.3	23.6	25.3	23.5	23.0	24.1	24.2	23.5
8/3/2020	14	23.3	23.6	25.8	24.3	23.9	24.9	24.2	23.5
8/3/2020	15	23.4	23.8	25.9	25.0	24.6	25.9	24.2	23.6
8/3/2020	16	23.4	23.7	26.0	25.4	25.2	26.5	24.2	23.6
8/3/2020	17	23.3	23.4	25.8	25.7	25.6	26.8	24.2	23.6
8/3/2020	18	23.2	23.3	25.3	25.8	25.6	26.6	24.1	23.6
8/3/2020	19	23.1	23.2	24.6	25.6	25.5	25.9	24.1	23.6
8/3/2020	20	22.9	23.2	23.8	25.1	25.2	25.4	24.1	23.6
8/3/2020	21	22.9	23.2	23.0	24.8	24.9	24.8	24.1	23.5
8/3/2020	22	23.1	23.1	22.3	24.3	24.4	24.6	24.1	23.5
8/3/2020	23	22.9	23.0	21.8	23.6	23.8	23.9	24.1	23.4
8/3/2020	24	23.1	23.2	21.4	22.9	23.1	23.3	24.0	23.4
8/4/2020	1	22.9	23.0	21.2	22.3	22.5	22.6	24.0	23.4
8/4/2020	2	22.8	23.0	21.1	21.8	22.0	21.8	24.0	23.4
8/4/2020	3	22.8	23.0	21.1	21.4	21.6	21.3	23.9	23.3
8/4/2020	4	22.8	22.9	21.1	21.1	21.3	20.9	23.9	23.3
8/4/2020	5	22.8	23.0	21.1	20.9	21.1	20.7	23.9	23.2
8/4/2020	6	22.8	23.0	21.0	20.8	20.9	20.4	23.8	23.2
8/4/2020	7	23.0	23.2	21.0	20.7	20.8	20.4	23.8	23.2
8/4/2020	8	23.1	23.3	21.2	20.9	20.9	21.0	23.8	23.2
8/4/2020	9	23.1	23.3	21.7	21.1	21.0	21.3	23.8	23.2
8/4/2020	10	23.2	23.4	22.3	21.3	21.1	22.0	23.9	23.3
8/4/2020	11	23.1	23.4	23.3	21.6	21.4	22.6	23.9	23.3
8/4/2020	12	23.1	23.4	24.3	22.2	21.9	23.2	24.0	23.3
8/4/2020	13	23.1	23.4	25.1	23.1	22.7	23.9	24.0	23.4
8/4/2020	14	23.1	23.5	25.8	24.0	23.6	24.8	24.1	23.5
8/4/2020	15	23.2	23.5	26.1	24.7	24.4	25.8	24.2	23.6
8/4/2020	16	23.2	23.5	26.1	25.4	25.1	26.6	24.2	23.7
8/4/2020	17	23.3	23.5	25.9	25.8	25.6	27.2	24.2	23.7
8/4/2020	18	23.4	23.6	25.5	26.0	25.8	27.0	24.2	23.7
8/4/2020	19	23.4	23.6	24.9	25.9	25.8	26.3	24.2	23.9
8/4/2020	20	23.5	23.6	24.1	25.5	25.5	26.1	24.3	23.9
8/4/2020	21	23.5	23.6	23.4	25.0	25.0	25.5	24.3	23.8
8/4/2020	22	23.5	23.6	22.7	24.5	24.6	25.0	24.3	23.8

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)
8/4/2020	23	23.5	23.6	22.3	23.9	24.0	24.2	24.3	23.8
8/4/2020	24	23.5	23.6	22.0	23.3	23.4	23.3	24.3	23.7
8/5/2020	1	23.5	23.6	21.9	22.7	22.9	22.6	24.3	23.7
8/5/2020	2	23.5	23.6	21.8	22.3	22.4	22.1	24.3	23.6
8/5/2020	3	23.5	23.6	21.7	21.9	22.1	21.7	24.2	23.6
8/5/2020	4	23.5	23.6	21.6	21.7	21.8	21.4	24.2	23.6
8/5/2020	5	23.5	23.6	21.5	21.5	21.7	21.2	24.2	23.5
8/5/2020	6	23.5	23.6	21.4	21.3	21.5	21.0	24.2	23.5
8/5/2020	7	23.5	23.4	21.3	21.2	21.4	21.0	24.1	23.6
8/5/2020	8	23.3	23.3	21.6	21.4	21.3	21.5	24.1	23.5
8/5/2020	9	23.0	23.2	22.0	21.5	21.3	21.8	23.9	23.3
8/5/2020	10	22.9	23.1	22.7	21.6	21.5	22.5	23.8	23.1
8/5/2020	11	22.8	23.0	23.5	21.9	21.7	23.0	23.7	23.0
8/5/2020	12	22.5	22.7	24.5	22.5	22.2	23.6	23.6	22.9
8/5/2020	13	22.3	22.5	25.4	23.4	23.1	24.3	23.6	22.9
8/5/2020	14	22.0	22.2	25.9	24.4	23.9	25.4	23.7	22.9
8/5/2020	15	21.9	22.3	26.2	25.1	24.7	26.4	23.7	22.9
8/5/2020	16	21.9	22.0	26.1	25.6	25.4	27.2	23.8	23.1
8/5/2020	17	21.9	22.1	25.7	25.9	25.8	27.6	23.9	23.2
8/5/2020	18	22.1	22.6	25.0	26.1	26.0	27.4	24.0	23.3
8/5/2020	19	22.0	22.1	24.2	25.8	25.8	26.6	24.0	23.4
8/5/2020	20	22.0	22.2	23.3	25.3	25.3	26.0	23.9	23.5
8/5/2020	21	22.0	22.3	22.5	24.7	24.8	25.2	23.9	23.3
8/5/2020	22	22.0	22.1	22.0	23.9	24.1	24.4	23.9	23.3
8/5/2020	23	22.0	22.0	21.6	23.3	23.4	23.6	23.8	23.0
8/5/2020	24	21.9	22.0	21.3	22.6	22.8	23.0	23.8	22.9
8/6/2020	1	21.7	21.8	21.1	22.1	22.3	22.5	23.8	22.8
8/6/2020	2	21.6	21.8	20.9	21.7	21.8	21.9	23.7	22.7
8/6/2020	3	21.7	21.8	20.8	21.4	21.5	21.5	23.7	23.0
8/6/2020	4	21.7	21.8	20.7	21.2	21.2	21.2	23.7	23.0
8/6/2020	5	21.8	21.9	20.6	21.0	21.1	21.1	23.7	23.0
8/6/2020	6	21.8	22.0	20.5	20.8	20.9	20.7	23.7	22.9
8/6/2020	7	22.5	23.0	20.4	20.7	20.7	20.6	23.7	23.4
8/6/2020	8	23.2	23.3	20.4	20.7	20.6	20.8	23.8	23.4
8/6/2020	9	23.1	23.3	20.8	20.7	20.6	21.5	23.8	23.3
8/6/2020	10	23.0	23.3	21.6	20.7	20.7	21.8	23.8	23.2
8/6/2020	11	23.0	23.3	22.6	20.9	20.8	22.2	23.8	23.2
8/6/2020	12	23.1	23.3	23.4	21.4	21.2	22.5	23.8	23.3
8/6/2020	13	23.2	23.3	23.5	21.9	21.6	22.0	23.8	23.3
8/6/2020	14	23.2	23.3	23.1	22.4	22.1	21.5	23.8	23.3
8/6/2020	15	23.2	23.3	22.6	22.7	22.5	22.4	23.8	23.3
8/6/2020	16	23.1	23.3	23.0	22.8	22.8	23.3	23.8	23.3
8/6/2020	17	23.1	23.2	23.0	22.5	22.6	22.8	23.8	23.2
8/6/2020	18	23.1	23.2	22.8	22.4	22.4	22.3	23.8	23.2
8/6/2020	19	23.1	23.1	22.4	22.1	22.2	21.7	23.7	23.1
8/6/2020	20	23.0	23.0	21.8	21.9	22.0	21.3	23.6	23.1
8/6/2020	21	22.9	22.9	21.3	21.7	21.8	21.0	23.5	23.0

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)
8/6/2020	22	22.9	22.8	20.8	21.4	21.6	20.8	23.4	22.9
8/6/2020	23	22.8	22.8	20.4	21.0	21.2	20.6	23.3	22.7
8/6/2020	24	22.7	22.7	20.2	20.5	20.8	20.1	23.3	22.6
8/7/2020	1	22.7	22.7	20.2	20.1	20.4	19.6	23.2	22.6
8/7/2020	2	22.7	22.6	20.2	19.8	20.0	19.4	23.1	22.5
8/7/2020	3	22.6	22.6	20.1	19.6	19.8	19.2	23.1	22.4
8/7/2020	4	22.6	22.5	20.0	19.5	19.7	19.0	23.1	22.4
8/7/2020	5	22.5	22.5	20.0	19.4	19.6	18.9	23.1	22.3
8/7/2020	6	22.5	22.4	20.0	19.4	19.6	18.9	23.1	22.3
8/7/2020	7	22.5	22.5	20.0	19.3	19.5	18.7	23.1	22.6
8/7/2020	8	22.4	22.5	20.2	19.6	19.5	19.4	23.1	22.5
8/7/2020	9	22.4	22.4	20.7	19.8	19.7	19.9	23.1	22.4
8/7/2020	10	22.3	22.4	21.4	20.0	19.8	20.5	23.1	22.3
8/7/2020	11	22.2	22.4	22.2	20.3	20.1	21.2	23.1	22.3
8/7/2020	12	22.2	22.4	23.2	20.9	20.6	21.6	23.1	22.3
8/7/2020	13	22.3	22.5	23.9	21.8	21.4	22.1	23.1	22.4
8/7/2020	14	22.3	22.5	24.5	22.8	22.3	23.0	23.1	22.5
8/7/2020	15	22.4	22.6	24.8	23.4	23.1	23.9	23.1	22.6
8/7/2020	16	22.5	22.7	24.8	23.9	23.7	24.6	23.1	22.7
8/7/2020	17	22.6	22.8	24.5	24.2	24.1	24.8	23.1	22.7
8/7/2020	18	22.6	22.8	23.8	24.3	24.2	24.8	23.1	22.7
8/7/2020	19	22.6	22.7	23.1	24.1	24.1	24.1	23.1	22.7
8/7/2020	20	22.6	22.7	22.4	23.7	23.8	23.8	23.2	22.7
8/7/2020	21	22.6	22.6	21.8	23.2	23.3	23.2	23.2	22.7
8/7/2020	22	22.5	22.6	21.3	22.7	22.8	22.7	23.2	22.7
8/7/2020	23	22.5	22.6	21.1	22.2	22.3	22.3	23.2	22.5
8/7/2020	24	22.5	22.5	20.9	21.6	21.8	21.7	23.1	22.5
8/8/2020	1	22.5	22.5	20.8	21.2	21.4	21.2	23.1	22.5
8/8/2020	2	22.5	22.5	20.8	20.9	21.1	20.9	23.1	22.5
8/8/2020	3	22.4	22.5	20.8	20.7	20.8	20.7	23.1	22.5
8/8/2020	4	22.4	22.4	20.7	20.6	20.7	20.5	23.1	22.4
8/8/2020	5	22.4	22.4	20.7	20.5	20.6	20.4	23.0	22.4
8/8/2020	6	22.4	22.4	20.6	20.4	20.5	20.2	23.0	22.3
8/8/2020	7	22.3	22.4	20.6	20.3	20.4	20.1	23.0	22.4
8/8/2020	8	22.3	22.4	20.7	20.4	20.4	20.4	23.0	22.4
8/8/2020	9	22.3	22.3	21.1	20.6	20.4	20.9	23.0	22.3
8/8/2020	10	22.2	22.3	21.7	20.7	20.6	21.4	23.0	22.3
8/8/2020	11	22.2	22.3	22.4	21.0	20.8	22.0	23.1	22.3
8/8/2020	12	22.2	22.4	23.3	21.5	21.2	22.4	23.1	22.3
8/8/2020	13	22.2	22.5	24.1	22.3	21.9	22.8	23.1	22.4
8/8/2020	14	22.3	22.6	24.7	23.0	22.6	23.6	23.1	22.5
8/8/2020	15	22.4	22.7	25.0	23.6	23.3	24.3	23.1	22.6
8/8/2020	16	22.5	22.8	24.9	24.1	23.9	24.8	23.1	22.7
8/8/2020	17	22.6	22.8	24.7	24.5	24.3	25.0	23.1	22.8
8/8/2020	18	22.7	22.8	24.1	24.5	24.4	24.7	23.1	22.8
8/8/2020	19	22.7	22.8	23.3	24.2	24.2	24.0	23.1	22.8
8/8/2020	20	22.6	22.7	22.5	23.7	23.8	23.5	23.1	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)
8/8/2020	21	22.6	22.6	21.9	23.2	23.4	23.0	23.1	22.7
8/8/2020	22	22.5	22.5	21.3	22.7	22.9	22.5	23.1	22.6
8/8/2020	23	22.5	22.5	20.8	22.1	22.4	22.0	23.1	22.5
8/8/2020	24	22.5	22.4	20.5	21.5	21.8	21.6	23.1	22.5
8/9/2020	1	22.4	22.4	20.2	21.0	21.2	21.0	23.0	22.4
8/9/2020	2	22.4	22.4	20.2	20.5	20.7	20.4	22.9	22.3
8/9/2020	3	22.3	22.3	20.1	20.1	20.3	20.1	22.9	22.3
8/9/2020	4	22.3	22.3	20.1	19.8	20.0	19.6	22.8	22.3
8/9/2020	5	22.3	22.3	20.1	19.6	19.8	19.2	22.8	22.2
8/9/2020	6	22.2	22.3	20.0	19.5	19.7	19.1	22.7	22.1
8/9/2020	7	22.2	22.2	20.0	19.5	19.7	19.1	22.7	22.1
8/9/2020	8	22.2	22.3	20.2	19.7	19.7	19.5	22.8	21.8
8/9/2020	9	22.2	22.3	20.7	19.9	19.8	19.9	22.9	21.8
8/9/2020	10	22.2	22.3	21.2	20.1	19.9	20.7	23.0	22.0
8/9/2020	11	22.2	22.3	22.1	20.4	20.2	21.3	23.1	22.2
8/9/2020	12	22.2	22.4	23.0	20.9	20.7	21.9	23.2	22.7
8/9/2020	13	22.2	22.5	23.9	21.8	21.5	22.4	23.3	23.1
8/9/2020	14	22.3	22.5	24.5	22.8	22.3	23.3	23.3	23.3
8/9/2020	15	22.3	22.5	24.9	23.4	23.1	24.2	23.3	23.3
8/9/2020	16	22.3	22.5	24.9	23.9	23.7	25.0	23.3	23.4
8/9/2020	17	22.4	22.5	24.8	24.3	24.2	25.5	23.4	23.6
8/9/2020	18	22.3	22.5	24.3	24.5	24.4	25.4	23.4	23.4
8/9/2020	19	22.4	22.5	23.7	24.5	24.4	24.7	23.4	23.0
8/9/2020	20	22.4	22.4	22.9	24.2	24.2	24.1	23.4	22.9
8/9/2020	21	22.4	22.4	22.3	23.8	23.9	23.6	23.3	22.7
8/9/2020	22	22.4	22.4	21.7	23.4	23.4	23.2	23.2	22.6
8/9/2020	23	22.4	22.4	21.4	22.8	22.9	22.7	23.2	22.5
8/9/2020	24	22.4	22.4	21.2	22.2	22.3	22.1	23.1	22.5
8/10/2020	1	22.4	22.4	21.0	21.7	21.9	21.6	23.0	22.4
8/10/2020	2	22.3	22.4	20.9	21.3	21.5	21.1	23.0	22.1
8/10/2020	3	22.3	22.4	20.8	21.0	21.2	20.8	22.9	22.1
8/10/2020	4	22.3	22.3	20.7	20.7	20.9	20.5	22.9	22.0
8/10/2020	5	22.3	22.3	20.6	20.5	20.7	20.2	22.9	21.6
8/10/2020	6	22.3	22.3	20.5	20.4	20.6	20.0	22.9	21.8
8/10/2020	7	22.4	22.4	20.4	20.3	20.4	19.9	22.9	22.5
8/10/2020	8	22.4	22.5	20.6	20.5	20.4	20.6	22.9	22.4
8/10/2020	9	22.3	22.5	21.1	20.6	20.4	21.0	23.0	22.4
8/10/2020	10	22.3	22.4	21.7	20.7	20.6	21.8	23.0	22.4
8/10/2020	11	22.3	22.5	22.6	21.0	20.8	22.3	23.0	22.4
8/10/2020	12	22.3	22.5	23.6	21.6	21.3	22.9	23.0	22.4
8/10/2020	13	22.3	22.6	24.5	22.5	22.1	23.4	23.1	22.5
8/10/2020	14	22.4	22.7	25.1	23.4	22.9	24.5	23.2	22.6
8/10/2020	15	22.5	22.8	25.4	24.0	23.7	25.5	23.2	22.7
8/10/2020	16	22.6	22.8	25.2	24.6	24.4	26.2	23.2	22.8
8/10/2020	17	22.6	22.7	24.9	24.9	24.7	26.4	23.2	22.8
8/10/2020	18	22.5	22.7	24.3	24.9	24.8	26.2	23.3	22.8
8/10/2020	19	22.7	22.9	23.5	24.6	24.6	25.4	23.3	22.8



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)
8/10/2020	20	22.7	22.8	22.8	24.1	24.2	24.7	23.3	22.8
8/10/2020	21	22.7	22.8	22.0	23.6	23.7	24.0	23.3	22.8
8/10/2020	22	22.7	22.7	21.5	23.0	23.1	23.4	23.3	22.7
8/10/2020	23	22.6	22.6	21.2	22.4	22.5	22.8	23.3	22.4
8/10/2020	24	22.5	22.6	21.1	21.9	22.0	22.0	23.2	22.5
8/11/2020	1	22.5	22.6	20.9	21.4	21.6	21.4	23.1	22.4
8/11/2020	2	22.5	22.5	20.7	21.0	21.2	20.8	23.1	22.5
8/11/2020	3	22.5	22.5	20.4	20.8	20.9	20.7	23.0	22.4
8/11/2020	4	22.4	22.4	20.2	20.5	20.7	20.4	23.0	22.4
8/11/2020	5	22.4	22.4	20.1	20.2	20.4	19.9	22.9	22.3
8/11/2020	6	22.4	22.3	20.1	20.0	20.2	19.6	22.8	22.3
8/11/2020	7	22.3	22.3	20.1	19.8	20.0	19.5	22.8	22.4
8/11/2020	8	22.3	22.3	20.3	20.0	19.9	20.1	22.8	22.3
8/11/2020	9	22.2	22.2	20.7	20.1	20.0	20.7	22.9	22.2
8/11/2020	10	22.0	22.2	21.4	20.2	20.1	21.2	22.9	22.1
8/11/2020	11	22.0	22.2	22.2	20.5	20.3	21.8	22.9	22.1
8/11/2020	12	22.0	22.2	23.1	21.1	20.8	22.3	22.9	22.2
8/11/2020	13	22.1	22.3	23.9	21.9	21.6	22.8	22.9	22.3
8/11/2020	14	22.2	22.4	24.5	22.8	22.4	23.8	22.9	22.3
8/11/2020	15	22.3	22.5	24.8	23.4	23.1	24.7	23.0	22.4
8/11/2020	16	22.4	22.6	24.7	23.9	23.7	25.2	23.0	22.5
8/11/2020	17	22.5	22.6	24.3	24.1	24.0	25.2	23.0	22.5
8/11/2020	18	22.5	22.6	23.6	24.1	24.0	24.6	23.0	22.6
8/11/2020	19	22.5	22.5	22.7	23.8	23.8	24.0	22.9	22.5
8/11/2020	20	22.4	22.5	21.8	23.3	23.3	23.4	22.9	22.5
8/11/2020	21	22.4	22.4	21.2	22.7	22.8	22.7	22.9	22.4
8/11/2020	22	22.3	22.3	20.7	22.1	22.2	22.2	22.8	22.3
8/11/2020	23	22.3	22.3	20.3	21.4	21.6	21.4	22.8	18.8
8/11/2020	24	22.2	22.3	20.3	20.9	21.0	20.8	22.8	19.2
8/12/2020	1	22.2	22.2	20.3	20.5	20.6	20.4	22.7	19.0
8/12/2020	2	22.2	22.2	20.3	20.2	20.3	20.2	22.7	19.9
8/12/2020	3	22.1	22.1	20.2	20.0	20.2	19.9	22.7	18.8
8/12/2020	4	22.1	22.1	20.2	19.9	20.1	19.7	22.6	18.4
8/12/2020	5	22.0	22.0	20.1	19.8	20.0	19.6	22.6	18.9
8/12/2020	6	22.0	22.0	20.0	19.7	19.9	19.5	22.6	19.5
8/12/2020	7	22.0	22.0	19.9	19.7	19.8	19.4	22.6	22.0
8/12/2020	8	21.9	22.0	20.0	19.7	19.7	19.5	22.6	22.0
8/12/2020	9	21.9	21.3	20.2	19.8	19.7	19.9	22.6	21.9
8/12/2020	10	21.9	21.9	20.7	19.9	19.8	20.3	22.6	21.9
8/12/2020	11	21.9	21.9	21.3	20.1	20.0	20.9	22.6	21.9
8/12/2020	12	21.8	21.9	22.2	20.5	20.3	21.3	22.6	21.9
8/12/2020	13	21.8	22.0	23.0	21.2	20.8	21.6	22.6	22.0
8/12/2020	14	21.8	22.0	23.7	21.7	21.5	22.4	22.6	22.1
8/12/2020	15	21.9	22.1	24.1	22.3	22.1	22.9	22.6	22.1
8/12/2020	16	22.0	22.1	24.0	22.8	22.7	23.4	22.6	22.1
8/12/2020	17	22.0	22.0	23.6	23.1	23.0	23.8	22.6	22.1
8/12/2020	18	22.0	22.1	23.0	23.3	23.2	23.5	22.6	22.1

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)
8/12/2020	19	22.0	22.0	22.2	23.0	23.1	23.0	22.6	22.1
8/12/2020	20	22.0	22.0	21.4	22.6	22.8	22.5	22.6	22.1
8/12/2020	21	22.0	22.0	20.9	22.0	22.3	21.9	22.6	22.1
8/12/2020	22	21.9	21.9	20.4	21.5	21.8	21.4	22.6	22.0
8/12/2020	23	21.9	21.9	20.0	21.0	21.3	20.9	22.5	21.9
8/12/2020	24	21.9	21.8	19.7	20.5	20.8	20.4	22.4	21.9
8/13/2020	1	21.8	21.8	19.5	20.0	20.3	20.1	22.4	21.8
8/13/2020	2	21.8	21.7	19.3	19.5	19.8	19.5	22.3	21.7
8/13/2020	3	21.8	21.7	19.2	19.2	19.5	19.0	22.3	21.7
8/13/2020	4	21.7	21.7	19.1	18.9	19.2	18.7	22.2	21.7
8/13/2020	5	21.7	21.6	19.1	18.7	19.0	18.4	22.2	21.6
8/13/2020	6	21.6	21.6	19.0	18.5	18.8	18.2	22.1	21.6
8/13/2020	7	21.6	21.6	19.1	18.4	18.7	18.2	22.1	21.7
8/13/2020	8	21.6	21.5	19.3	18.5	18.7	18.4	22.1	21.6
8/13/2020	9	21.5	21.6	19.7	18.7	18.7	18.7	22.1	21.6
8/13/2020	10	21.5	21.5	20.2	18.9	18.8	19.1	22.1	21.6
8/13/2020	11	21.4	21.4	20.8	19.2	19.1	19.7	22.1	21.5
8/13/2020	12	21.3	21.4	21.6	19.8	19.6	20.4	22.1	21.5
8/13/2020	13	21.4	21.5	22.6	20.5	20.2	20.9	22.1	21.6
8/13/2020	14	21.4	21.6	23.3	21.3	20.9	21.7	22.1	21.6
8/13/2020	15	21.5	21.7	23.7	21.8	21.6	22.5	22.1	21.7
8/13/2020	16	21.6	21.7	23.8	22.4	22.3	23.3	22.2	21.7
8/13/2020	17	21.7	21.8	23.6	22.9	22.8	23.8	22.2	21.8
8/13/2020	18	21.8	21.8	23.2	23.3	23.1	23.8	22.2	21.8
8/13/2020	19	21.8	21.8	22.5	23.2	23.1	23.4	22.2	21.8
8/13/2020	20	21.8	21.8	21.9	22.8	22.9	23.0	22.3	21.8
8/13/2020	21	21.7	21.7	21.3	22.5	22.7	22.5	22.3	21.8
8/13/2020	22	21.7	21.7	20.7	22.0	22.3	22.1	22.2	21.8
8/13/2020	23	21.7	21.7	20.3	21.5	21.7	21.6	22.2	21.6
8/13/2020	24	21.6	21.6	19.9	20.9	21.2	21.2	22.1	21.6
8/14/2020	1	21.6	21.6	19.6	20.4	20.6	20.5	22.1	21.6
8/14/2020	2	21.6	21.5	19.4	19.9	20.2	20.0	22.0	21.5
8/14/2020	3	21.5	21.5	19.2	19.5	19.8	19.4	22.0	21.5
8/14/2020	4	21.5	21.4	19.2	19.2	19.5	19.0	21.9	21.4
8/14/2020	5	21.5	21.4	19.3	18.9	19.2	18.7	21.9	21.4
8/14/2020	6	21.4	21.3	19.3	18.7	19.0	18.5	21.9	21.3
8/14/2020	7	21.4	21.3	19.4	18.7	18.9	18.4	22.0	21.5
8/14/2020	8	21.4	21.4	19.6	19.0	18.9	19.2	22.0	21.5
8/14/2020	9	21.4	21.5	20.0	19.2	19.1	19.8	22.0	21.5
8/14/2020	10	21.4	21.5	20.7	19.4	19.3	20.2	22.1	21.5
8/14/2020	11	21.4	21.5	21.5	19.7	19.6	20.8	22.1	21.5
8/14/2020	12	21.4	21.5	22.5	20.3	20.0	21.3	22.1	21.5
8/14/2020	13	21.5	21.7	23.4	21.1	20.8	21.8	22.2	21.6
8/14/2020	14	21.6	21.8	24.1	22.1	21.7	22.9	22.2	21.7
8/14/2020	15	21.6	21.8	24.5	22.8	22.6	24.0	22.2	21.8
8/14/2020	16	21.7	21.9	24.5	23.5	23.3	25.0	22.3	21.9
8/14/2020	17	21.8	21.9	24.3	24.0	23.9	24.6	22.3	21.9

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)
8/14/2020	18	21.9	22.0	23.8	24.2	24.1	25.2	22.4	22.0
8/14/2020	19	21.8	21.9	23.2	24.0	24.0	24.7	22.4	22.0
8/14/2020	20	21.9	21.9	22.5	23.7	23.8	24.3	22.5	22.0
8/14/2020	21	21.9	21.9	21.8	23.3	23.4	23.6	22.5	22.0
8/14/2020	22	21.9	21.9	21.4	22.8	23.0	23.3	22.5	22.0
8/14/2020	23	21.8	21.9	21.1	22.3	22.5	22.8	22.4	21.9
8/14/2020	24	21.8	21.9	20.9	21.8	22.0	22.2	22.4	21.9
8/15/2020	1	21.8	21.8	20.7	21.3	21.5	21.4	22.4	21.9
8/15/2020	2	21.8	21.8	20.6	21.0	21.2	20.9	22.3	21.8
8/15/2020	3	21.8	21.8	20.5	20.7	20.9	20.6	22.3	21.8
8/15/2020	4	21.8	21.8	20.3	20.4	20.7	20.3	22.2	21.7
8/15/2020	5	21.8	21.7	20.2	20.2	20.5	20.0	22.2	21.7
8/15/2020	6	21.7	21.7	20.1	20.1	20.3	19.8	22.2	21.7
8/15/2020	7	21.7	21.7	20.1	19.9	20.2	19.8	22.3	21.8
8/15/2020	8	21.7	21.7	20.2	20.1	20.1	20.8	22.3	21.8
8/15/2020	9	21.7	21.8	20.6	20.2	20.1	21.3	22.4	21.7
8/15/2020	10	21.7	21.9	21.3	20.3	20.2	21.7	22.5	21.8
8/15/2020	11	21.7	21.9	22.2	20.6	20.4	22.0	22.5	21.9
8/15/2020	12	21.7	21.9	23.2	21.1	20.9	22.4	22.6	21.9
8/15/2020	13	21.8	22.1	24.1	21.9	21.6	23.1	22.6	22.1
8/15/2020	14	21.9	22.1	24.8	22.9	22.5	24.1	22.6	22.1
8/15/2020	15	21.9	22.2	25.2	23.6	23.4	25.1	22.7	22.2
8/15/2020	16	22.1	22.3	25.3	24.3	24.1	26.1	22.7	22.3
8/15/2020	17	22.2	22.3	25.0	24.8	24.6	26.5	22.8	22.4
8/15/2020	18	22.2	22.3	24.6	25.0	24.9	26.1	22.8	22.4
8/15/2020	19	22.2	22.4	23.8	24.9	24.9	25.8	22.8	22.4
8/15/2020	20	22.3	22.4	23.0	24.6	24.6	25.4	22.9	22.4
8/15/2020	21	22.3	22.3	22.4	24.2	24.3	24.5	22.9	22.4
8/15/2020	22	22.2	22.3	21.8	23.6	23.8	23.8	22.9	22.4
8/15/2020	23	22.2	22.3	21.4	22.9	23.1	23.1	22.8	22.3
8/15/2020	24	22.2	22.2	21.2	22.3	22.5	22.4	22.8	22.3
8/16/2020	1	22.2	22.2	21.0	21.8	22.0	21.7	22.8	22.3
8/16/2020	2	22.2	22.2	20.9	21.3	21.5	21.2	22.7	22.2
8/16/2020	3	22.2	22.2	20.7	21.0	21.2	20.9	22.7	22.2
8/16/2020	4	22.1	22.1	20.6	20.7	21.0	20.6	22.6	22.2
8/16/2020	5	22.1	22.1	20.5	20.5	20.7	20.3	22.6	22.1
8/16/2020	6	22.1	22.1	20.4	20.3	20.6	20.1	22.6	22.1
8/16/2020	7	22.1	22.1	20.3	20.2	20.4	20.0	22.6	22.2
8/16/2020	8	22.0	22.1	20.5	20.3	20.3	21.0	22.6	22.1
8/16/2020	9	21.9	22.0	21.0	20.4	20.3	21.5	22.6	22.0
8/16/2020	10	21.9	22.1	21.6	20.6	20.5	22.0	22.6	22.0
8/16/2020	11	21.9	22.1	22.4	20.8	20.7	22.3	22.6	22.0
8/16/2020	12	21.9	22.1	23.2	21.4	21.2	22.9	22.7	22.0
8/16/2020	13	22.0	22.3	23.9	22.1	21.8	23.2	22.7	22.1
8/16/2020	14	21.9	22.0	23.9	22.6	22.4	23.1	22.7	22.2
8/16/2020	15	22.0	22.3	24.0	23.4	23.2	24.2	22.7	22.2
8/16/2020	16	22.1	22.3	24.1	23.8	23.7	25.7	22.7	22.3

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)
8/16/2020	17	22.1	22.2	23.8	23.9	23.8	25.4	22.8	22.3
8/16/2020	18	22.1	22.2	23.5	24.1	24.0	25.1	22.8	22.4
8/16/2020	19	22.0	22.1	23.2	24.0	24.0	24.4	22.8	22.3
8/16/2020	20	22.0	22.1	22.8	23.7	23.8	24.0	22.8	22.4
8/16/2020	21	22.0	22.1	22.4	23.4	23.5	24.0	22.9	22.3
8/16/2020	22	22.0	22.1	22.1	23.1	23.3	23.8	22.8	22.4
8/16/2020	23	22.0	22.0	21.8	22.8	22.9	23.9	22.8	22.3
8/16/2020	24	22.0	22.1	21.6	22.4	22.6	23.5	22.8	22.2
8/17/2020	1	22.0	22.0	21.5	22.2	22.3	22.8	22.8	22.3
8/17/2020	2	21.8	21.8	21.3	21.8	22.0	22.3	22.7	22.3
8/17/2020	3	21.8	21.8	21.2	21.6	21.7	21.7	22.7	22.3
8/17/2020	4	21.8	21.8	21.1	21.4	21.5	21.4	22.7	22.2
8/17/2020	5	21.7	21.7	21.0	21.2	21.3	21.1	22.7	22.2
8/17/2020	6	21.7	21.7	20.8	21.1	21.2	21.0	22.7	22.2
8/17/2020	7	21.7	21.7	20.7	21.0	21.1	20.9	22.6	22.1
8/17/2020	8	21.7	21.8	20.9	21.0	21.0	22.0	22.6	22.1
8/17/2020	9	21.7	21.7	21.3	21.1	21.0	22.6	22.6	22.1
8/17/2020	10	21.3	21.6	21.9	21.2	21.1	22.9	22.6	22.0
8/17/2020	11	21.3	21.4	22.7	21.5	21.3	23.4	22.6	21.9
8/17/2020	12	21.2	21.4	23.5	21.9	21.7	23.5	22.6	22.0
8/17/2020	13	21.3	21.4	24.3	22.7	22.4	24.1	22.6	22.2
8/17/2020	14	21.3	21.6	24.8	23.4	23.2	25.2	22.7	22.2
8/17/2020	15	21.4	21.6	24.9	24.1	23.9	26.2	22.8	22.4
8/17/2020	16	21.7	22.1	25.0	24.6	24.5	27.2	22.9	22.6
8/17/2020	17	21.9	22.2	24.8	24.9	24.8	27.3	23.1	22.8
8/17/2020	18	21.9	22.1	24.4	25.0	24.9	26.9	23.2	22.8
8/17/2020	19	22.0	22.2	23.7	24.9	24.9	26.3	23.3	22.8
8/17/2020	20	22.1	22.1	23.1	24.6	24.7	26.2	23.3	22.9
8/17/2020	21	22.1	22.3	22.6	24.2	24.4	25.0	23.3	22.8
8/17/2020	22	22.0	21.8	22.2	23.7	23.9	24.6	23.2	22.8
8/17/2020	23	21.9	21.9	21.9	23.2	23.4	24.2	23.2	22.6
8/17/2020	24	21.6	21.7	21.6	22.7	22.9	23.7	23.2	22.5
8/18/2020	1	21.5	21.5	21.5	22.3	22.5	22.7	23.1	22.6
8/18/2020	2	21.3	21.3	21.3	21.9	22.1	22.0	23.1	22.5
8/18/2020	3	21.2	21.2	21.1	21.6	21.7	21.6	23.0	22.6
8/18/2020	4	21.1	21.1	20.8	21.4	21.5	21.3	23.0	22.5
8/18/2020	5	21.0	21.0	20.6	21.2	21.3	21.0	22.9	22.4
8/18/2020	6	20.9	20.9	20.4	20.9	21.1	20.7	22.8	22.4
8/18/2020	7	21.1	21.2	20.2	20.7	20.9	20.6	22.7	22.1
8/18/2020	8	21.1	21.2	20.2	20.6	20.7	20.6	22.6	22.3
8/18/2020	9	21.1	21.1	20.4	20.6	20.6	21.6	22.5	22.0
8/18/2020	10	21.0	21.0	21.0	20.7	20.7	22.4	22.5	21.9
8/18/2020	11	21.0	21.1	21.6	20.6	20.6	22.0	22.4	21.9
8/18/2020	12	21.3	21.4	22.6	21.2	21.0	22.8	22.6	22.2
8/18/2020	13	21.2	21.6	23.4	21.9	21.6	23.5	22.8	22.3
8/18/2020	14	21.5	21.9	24.1	22.6	22.3	24.3	23.0	22.4
8/18/2020	15	21.5	21.9	24.6	23.3	23.1	25.6	23.0	22.6

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)
8/18/2020	16	21.5	21.6	24.8	23.9	23.7	26.1	23.0	22.6
8/18/2020	17	21.4	21.5	24.6	24.3	24.2	26.4	23.0	22.6
8/18/2020	18	21.3	21.5	24.1	24.6	24.5	26.2	23.1	22.7
8/18/2020	19	21.2	21.5	23.5	24.6	24.5	25.7	23.1	22.5
8/18/2020	20	21.1	21.2	22.8	24.3	24.3	25.2	23.1	22.6
8/18/2020	21	21.1	21.0	22.2	23.9	24.0	24.8	23.1	22.7
8/18/2020	22	21.1	21.7	21.6	23.4	23.6	24.1	23.1	22.7
8/18/2020	23	21.0	21.1	21.2	22.8	23.0	23.3	23.1	22.8
8/18/2020	24	21.0	21.0	20.8	22.3	22.5	22.5	23.1	22.7
8/19/2020	1	20.8	20.8	20.5	21.7	21.9	21.8	23.1	22.6
8/19/2020	2	20.8	20.8	20.3	21.2	21.4	21.2	23.1	22.6
8/19/2020	3	20.8	20.8	20.1	20.8	21.0	20.7	23.0	22.5
8/19/2020	4	20.8	20.9	19.9	20.4	20.6	20.6	23.0	22.5
8/19/2020	5	20.9	21.0	19.7	20.2	20.3	20.2	23.0	22.5
8/19/2020	6	21.0	21.1	19.7	19.9	20.1	19.7	23.0	22.6
8/19/2020	7	21.9	22.4	19.6	19.7	19.9	19.5	23.1	22.8
8/19/2020	8	22.6	22.7	19.7	19.7	19.7	20.5	23.2	22.9
8/19/2020	9	22.7	22.8	20.2	19.8	19.8	21.0	23.3	22.9
8/19/2020	10	22.5	22.7	20.9	19.9	19.9	21.5	23.4	22.8
8/19/2020	11	22.7	22.9	22.1	20.2	20.1	22.0	23.5	22.9
8/19/2020	12	22.8	23.0	23.3	20.7	20.5	22.3	23.6	23.0
8/19/2020	13	22.9	23.1	24.3	21.6	21.2	23.0	23.7	23.1
8/19/2020	14	23.0	23.2	25.0	22.7	22.2	24.1	23.8	23.2
8/19/2020	15	23.0	23.3	25.3	23.5	23.2	25.2	23.8	23.3
8/19/2020	16	23.1	23.3	25.4	24.2	24.0	26.2	23.8	23.4
8/19/2020	17	23.1	23.3	24.9	24.7	24.5	25.9	23.8	23.4
8/19/2020	18	23.1	23.3	24.2	24.9	24.8	26.0	23.8	23.4
8/19/2020	19	23.1	23.3	23.5	24.8	24.8	25.7	23.8	23.4
8/19/2020	20	23.1	23.2	23.0	24.4	24.5	25.2	23.9	23.4
8/19/2020	21	23.1	23.2	22.4	23.8	24.0	24.6	23.9	23.4
8/19/2020	22	23.1	23.3	22.1	23.3	23.4	23.9	23.9	23.4
8/19/2020	23	23.1	23.2	22.0	22.7	22.9	23.5	23.8	23.2
8/19/2020	24	23.1	23.2	21.8	22.2	22.4	22.8	23.8	23.3
8/20/2020	1	23.1	23.2	21.8	21.9	22.1	22.2	23.8	23.2
8/20/2020	2	23.1	23.2	21.8	21.8	21.9	22.2	23.7	23.2
8/20/2020	3	23.1	23.2	21.8	21.7	21.8	22.2	23.7	23.2
8/20/2020	4	23.1	23.2	21.7	21.6	21.7	21.7	23.7	23.1
8/20/2020	5	23.1	23.2	21.7	21.5	21.6	21.5	23.6	23.1
8/20/2020	6	23.1	23.1	21.6	21.5	21.5	21.7	23.6	23.0
8/20/2020	7	23.1	23.1	21.7	21.4	21.5	21.6	23.6	23.2
8/20/2020	8	23.0	23.1	21.8	21.4	21.5	21.6	23.7	23.2
8/20/2020	9	23.0	23.2	22.2	21.6	21.5	22.5	23.7	23.1
8/20/2020	10	23.0	23.1	22.5	21.6	21.6	23.0	23.8	23.1
8/20/2020	11	23.0	23.2	23.2	21.9	21.8	23.2	23.8	23.1
8/20/2020	12	23.0	23.2	23.9	22.2	22.1	23.5	23.8	23.2
8/20/2020	13	23.0	23.3	24.6	22.8	22.6	23.9	23.9	23.3
8/20/2020	14	23.1	23.4	25.1	23.4	23.2	24.5	23.9	23.3

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)
8/20/2020	15	23.2	23.4	25.1	23.9	23.7	24.8	23.9	23.4
8/20/2020	16	23.2	23.4	25.1	24.4	24.2	25.5	23.9	23.4
8/20/2020	17	23.3	23.4	24.5	24.7	24.5	25.3	23.9	23.5
8/20/2020	18	23.3	23.5	24.2	24.7	24.7	25.6	23.9	23.5
8/20/2020	19	23.3	23.4	23.6	24.6	24.6	24.9	24.0	23.5
8/20/2020	20	23.3	23.4	23.1	24.2	24.3	24.3	24.0	23.5
8/20/2020	21	23.3	23.4	22.8	23.9	24.0	23.9	24.0	23.5
8/20/2020	22	23.3	23.4	22.5	23.4	23.6	23.5	24.0	23.4
8/20/2020	23	23.2	23.3	22.2	23.0	23.1	23.0	23.9	23.3
8/20/2020	24	23.2	23.3	22.1	22.6	22.8	22.7	23.9	23.4
8/21/2020	1	23.2	23.3	22.1	22.3	22.5	22.4	23.9	23.4
8/21/2020	2	23.2	23.3	22.1	22.1	22.3	22.2	23.8	23.3
8/21/2020	3	23.2	23.3	22.0	22.0	22.1	22.0	23.8	23.3
8/21/2020	4	23.2	23.2	22.0	21.9	22.0	21.8	23.8	23.3
8/21/2020	5	23.1	23.2	21.9	21.8	21.9	21.7	23.7	23.2
8/21/2020	6	23.1	23.2	21.9	21.7	21.9	21.6	23.7	23.2
8/21/2020	7	23.1	23.2	21.8	21.7	21.8	21.6	23.7	23.3
8/21/2020	8	23.1	23.2	21.9	21.7	21.7	22.4	23.8	23.3
8/21/2020	9	23.1	23.3	22.2	21.8	21.8	22.9	23.8	23.2
8/21/2020	10	23.1	23.3	22.6	21.9	21.9	23.1	23.8	23.3
8/21/2020	11	23.1	23.2	22.9	22.0	21.9	22.9	23.8	23.3
8/21/2020	12	23.1	23.3	23.1	22.2	22.1	23.2	23.8	23.3
8/21/2020	13	23.1	23.3	23.2	22.5	22.4	23.5	23.9	23.2
8/21/2020	14	23.1	23.4	23.4	22.8	22.7	23.9	23.9	23.3
8/21/2020	15	23.1	23.4	24.0	23.1	23.0	24.6	23.9	23.4
8/21/2020	16	23.2	23.4	24.2	23.2	23.2	24.1	23.9	23.4
8/21/2020	17	23.2	23.3	23.9	23.4	23.4	23.7	23.9	23.4
8/21/2020	18	23.2	23.4	23.5	23.6	23.5	23.7	23.9	23.4
8/21/2020	19	23.2	23.3	22.7	23.4	23.5	23.3	23.9	23.3
8/21/2020	20	23.2	23.3	22.1	23.0	23.2	23.0	23.9	23.3
8/21/2020	21	23.2	23.2	21.6	22.5	22.8	22.5	23.8	23.3
8/21/2020	22	23.2	23.2	21.3	22.0	22.3	22.1	23.7	23.3
8/21/2020	23	23.1	23.1	21.2	21.5	21.8	21.6	23.7	23.1
8/21/2020	24	23.1	23.1	21.0	21.1	21.3	21.2	23.6	23.1
8/22/2020	1	23.1	23.1	20.8	20.8	21.0	20.8	23.6	23.1
8/22/2020	2	23.0	23.0	20.6	20.6	20.8	20.5	23.5	22.9
8/22/2020	3	23.0	22.9	20.4	20.3	20.5	20.3	23.5	22.9
8/22/2020	4	23.0	22.9	20.3	20.1	20.3	20.0	23.5	22.8
8/22/2020	5	22.9	22.9	20.3	19.9	20.1	19.8	23.5	22.8
8/22/2020	6	22.9	22.8	20.4	19.8	20.0	19.6	23.5	22.7
8/22/2020	7	22.8	22.8	20.4	19.7	19.9	19.5	23.4	22.9
8/22/2020	8	22.8	22.8	20.6	20.0	20.0	20.4	23.5	22.9
8/22/2020	9	22.8	22.9	21.1	20.2	20.1	21.1	23.5	22.9
8/22/2020	10	22.8	22.9	21.7	20.4	20.3	21.5	23.5	22.9
8/22/2020	11	22.7	22.8	22.4	20.7	20.6	22.2	23.5	22.9
8/22/2020	12	22.7	22.8	23.3	21.2	21.0	22.4	23.5	22.9
8/22/2020	13	22.7	22.9	24.1	22.0	21.7	22.7	23.5	22.9

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)
8/22/2020	14	22.7	22.9	24.8	22.9	22.5	23.6	23.6	22.9
8/22/2020	15	22.7	22.9	25.1	23.4	23.3	24.5	23.6	23.0
8/22/2020	16	22.7	22.8	25.1	24.0	23.9	25.3	23.6	23.1
8/22/2020	17	22.7	22.8	24.8	24.4	24.3	25.4	23.6	23.1
8/22/2020	18	22.8	22.8	24.2	24.6	24.5	25.0	23.6	23.1
8/22/2020	19	22.8	22.9	23.6	24.4	24.5	24.4	23.5	23.1
8/22/2020	20	22.8	22.8	22.8	24.1	24.2	24.3	23.5	23.0
8/22/2020	21	22.8	22.8	22.3	23.7	23.8	23.6	23.5	23.0
8/22/2020	22	22.8	22.8	21.8	23.1	23.4	23.2	23.5	23.0
8/22/2020	23	22.8	22.8	21.5	22.5	22.8	22.5	23.5	23.0
8/22/2020	24	22.8	22.8	21.2	22.0	22.3	21.9	23.5	22.9
8/23/2020	1	22.8	22.8	21.0	21.5	21.8	21.5	23.4	22.9
8/23/2020	2	22.8	22.8	21.0	21.2	21.5	21.0	23.4	22.8
8/23/2020	3	22.8	22.8	20.9	20.8	21.1	20.6	23.3	22.8
8/23/2020	4	22.8	22.7	20.8	20.6	20.9	20.3	23.3	22.7
8/23/2020	5	22.8	22.7	20.7	20.4	20.7	20.1	23.2	22.7
8/23/2020	6	22.7	22.7	20.6	20.2	20.5	19.8	23.2	22.7
8/23/2020	7	22.7	22.7	20.5	20.2	20.4	19.8	23.2	22.5
8/23/2020	8	22.7	22.7	20.7	20.3	20.3	20.6	23.2	22.5
8/23/2020	9	22.7	22.7	21.0	20.4	20.4	21.3	23.3	22.5
8/23/2020	10	22.7	22.8	21.7	20.5	20.5	21.7	23.4	22.6
8/23/2020	11	22.7	22.8	22.4	20.8	20.7	22.1	23.5	22.6
8/23/2020	12	22.7	22.8	23.3	21.2	21.0	22.4	23.6	22.8
8/23/2020	13	22.7	22.9	24.2	21.9	21.6	22.9	23.7	22.9
8/23/2020	14	22.7	23.0	24.9	22.8	22.5	23.8	23.7	23.2
8/23/2020	15	22.8	23.0	25.2	23.5	23.3	24.8	23.8	24.1
8/23/2020	16	22.7	22.9	25.2	24.1	24.0	25.7	23.8	24.2
8/23/2020	17	22.6	22.7	24.9	24.6	24.5	25.8	23.8	24.3
8/23/2020	18	22.5	22.6	24.4	24.8	24.7	25.5	23.7	24.0
8/23/2020	19	22.4	22.4	23.8	24.7	24.7	24.8	23.7	23.8
8/23/2020	20	22.3	22.3	23.0	24.3	24.4	24.6	23.7	23.6
8/23/2020	21	22.2	22.2	22.4	24.0	24.1	24.2	23.6	23.4
8/23/2020	22	22.1	22.1	21.9	23.4	23.6	23.5	23.6	23.2
8/23/2020	23	22.0	22.0	21.5	22.8	23.1	23.1	23.6	23.1
8/23/2020	24	22.0	22.0	21.2	22.3	22.5	22.4	23.5	23.0
8/24/2020	1	22.0	22.0	21.0	21.8	22.1	21.8	23.4	22.9
8/24/2020	2	21.9	21.9	20.9	21.4	21.7	21.3	23.4	22.8
8/24/2020	3	21.9	21.9	20.7	21.1	21.3	20.9	23.3	22.8
8/24/2020	4	21.9	21.8	20.6	20.8	21.0	20.6	23.2	22.7
8/24/2020	5	21.8	21.8	20.4	20.6	20.8	20.3	23.2	22.5
8/24/2020	6	21.8	21.8	20.3	20.3	20.6	20.0	23.1	22.5
8/24/2020	7	21.8	21.8	20.2	20.2	20.4	19.9	23.0	22.1
8/24/2020	8	21.8	21.8	20.3	20.2	20.3	20.7	23.1	22.0
8/24/2020	9	21.8	21.9	20.6	20.3	20.3	21.4	23.1	22.3
8/24/2020	10	21.8	21.9	21.2	20.4	20.3	21.7	23.1	22.3
8/24/2020	11	21.9	22.0	22.0	20.6	20.5	22.1	23.1	22.3
8/24/2020	12	21.9	22.0	23.0	21.0	20.8	22.4	23.1	22.4

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)
8/24/2020	13	21.9	22.1	23.8	21.7	21.4	22.8	23.2	22.5
8/24/2020	14	21.9	22.1	24.5	22.6	22.3	23.8	23.2	22.5
8/24/2020	15	21.9	22.0	24.6	23.3	23.0	24.8	23.2	22.7
8/24/2020	16	22.0	22.2	24.4	23.9	23.6	25.2	23.3	22.8
8/24/2020	17	22.0	22.1	24.2	24.3	24.1	25.6	23.3	22.8
8/24/2020	18	22.0	22.1	23.5	24.3	24.3	25.1	23.4	22.8
8/24/2020	19	22.1	22.2	23.0	24.1	24.2	24.8	23.4	22.8
8/24/2020	20	22.1	22.2	22.3	23.7	23.8	24.2	23.5	22.9
8/24/2020	21	22.3	22.5	21.8	23.2	23.4	23.7	23.5	22.9
8/24/2020	22	22.6	22.7	21.4	22.7	22.9	23.1	23.5	22.9
8/24/2020	23	22.6	22.7	21.2	22.3	22.5	22.4	23.4	22.6
8/24/2020	24	22.6	22.6	21.1	21.8	22.0	22.1	23.4	22.7
8/25/2020	1	22.6	22.6	21.2	21.4	21.6	21.6	23.3	22.5
8/25/2020	2	22.5	22.6	21.1	21.1	21.3	21.2	23.3	22.6
8/25/2020	3	22.5	22.5	21.0	20.9	21.1	20.7	23.2	22.6
8/25/2020	4	22.5	22.5	20.9	20.8	21.0	20.5	23.2	22.6
8/25/2020	5	22.5	22.5	20.8	20.6	20.9	20.4	23.2	22.5
8/25/2020	6	22.6	22.6	20.7	20.5	20.7	20.2	23.2	22.5
8/25/2020	7	22.6	22.6	20.6	20.4	20.6	20.1	23.2	22.6
8/25/2020	8	22.6	22.7	20.7	20.5	20.5	21.0	23.2	22.7
8/25/2020	9	22.6	22.7	21.0	20.6	20.5	21.5	23.3	22.7
8/25/2020	10	22.6	22.7	21.7	20.7	20.6	22.0	23.3	22.6
8/25/2020	11	22.5	22.7	22.4	20.8	20.8	22.3	23.3	22.6
8/25/2020	12	22.5	22.7	23.4	21.2	21.1	22.5	23.4	22.7
8/25/2020	13	22.6	22.8	24.2	22.0	21.7	22.9	23.4	22.8
8/25/2020	14	22.6	22.8	24.8	22.8	22.5	23.7	23.4	22.8
8/25/2020	15	22.5	22.8	25.1	23.4	23.2	24.7	23.5	22.9
8/25/2020	16	22.6	22.7	25.0	24.0	23.8	25.2	23.5	23.0
8/25/2020	17	22.6	22.7	24.7	24.4	24.2	25.3	23.5	23.0
8/25/2020	18	22.7	22.8	24.0	24.5	24.4	25.1	23.6	23.0
8/25/2020	19	22.8	22.8	23.3	24.2	24.2	24.6	23.6	23.0
8/25/2020	20	22.8	22.8	22.4	23.8	23.9	24.1	23.6	23.0
8/25/2020	21	22.8	22.9	21.7	23.2	23.4	23.4	23.5	23.0
8/25/2020	22	22.8	22.9	21.3	22.7	22.9	22.8	23.5	23.0
8/25/2020	23	22.9	22.9	21.1	22.1	22.4	22.3	23.4	22.9
8/25/2020	24	22.9	22.9	20.9	21.6	21.8	21.7	23.4	22.9
8/26/2020	1	22.9	22.8	20.7	21.2	21.4	21.3	23.4	22.8
8/26/2020	2	22.8	22.8	20.6	20.8	21.0	21.0	23.3	22.7
8/26/2020	3	22.8	22.8	20.4	20.5	20.7	20.6	23.3	22.7
8/26/2020	4	22.7	22.7	20.2	20.2	20.4	20.0	23.3	22.6
8/26/2020	5	22.7	22.7	20.1	19.9	20.2	19.7	23.3	22.6
8/26/2020	6	22.6	22.6	20.1	19.7	20.0	19.5	23.3	22.5
8/26/2020	7	22.6	22.6	20.1	19.6	19.8	19.3	23.3	22.7
8/26/2020	8	22.6	22.6	20.2	19.7	19.8	20.0	23.2	22.7
8/26/2020	9	22.6	22.6	20.7	19.8	19.8	20.5	23.2	22.7
8/26/2020	10	22.6	22.7	21.3	20.0	19.9	20.9	23.2	22.7
8/26/2020	11	22.5	22.6	22.2	20.3	20.2	21.5	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)
8/26/2020	12	22.4	22.5	23.1	20.8	20.5	21.9	23.3	22.6
8/26/2020	13	22.4	22.6	24.1	21.5	21.2	22.4	23.3	22.6
8/26/2020	14	22.4	22.6	24.7	22.4	22.1	23.3	23.3	22.7
8/26/2020	15	22.4	22.6	25.0	23.1	22.9	24.4	23.3	22.8
8/26/2020	16	22.5	22.6	24.9	23.8	23.6	25.3	23.3	22.8
8/26/2020	17	22.5	22.6	24.6	24.2	24.1	25.3	23.4	22.8
8/26/2020	18	22.5	22.6	24.0	24.4	24.3	25.1	23.4	22.8
8/26/2020	19	22.6	22.7	23.2	24.2	24.2	24.8	23.4	22.8
8/26/2020	20	22.6	22.6	22.5	23.8	23.9	24.3	23.3	22.8
8/26/2020	21	22.6	22.6	21.9	23.4	23.5	23.7	23.3	22.8
8/26/2020	22	22.6	22.7	21.4	22.8	23.0	23.1	23.3	22.8
8/26/2020	23	22.7	22.7	21.1	22.3	22.5	22.4	23.3	22.7
8/26/2020	24	22.7	22.7	20.8	21.7	22.0	22.1	23.2	22.7
8/27/2020	1	22.7	22.7	20.6	21.2	21.5	21.6	23.2	22.7
8/27/2020	2	22.7	22.7	20.4	20.8	21.0	21.1	23.2	22.6
8/27/2020	3	22.6	22.6	20.3	20.5	20.7	20.7	23.2	22.6
8/27/2020	4	22.6	22.6	20.2	20.2	20.4	20.2	23.2	22.5
8/27/2020	5	22.6	22.5	20.1	19.9	20.2	19.7	23.1	22.5
8/27/2020	6	22.5	22.5	20.1	19.8	20.0	19.5	23.1	22.4
8/27/2020	7	22.5	22.5	20.1	19.7	19.9	19.4	23.1	22.6
8/27/2020	8	22.5	22.5	20.3	19.8	19.8	20.1	23.1	22.5
8/27/2020	9	22.4	22.5	20.7	19.9	19.9	20.7	23.1	22.5
8/27/2020	10	22.4	22.5	21.3	20.0	20.0	21.1	23.1	22.5
8/27/2020	11	22.4	22.5	22.1	20.3	20.2	21.6	23.1	22.6
8/27/2020	12	22.3	22.5	22.9	20.7	20.6	22.0	23.1	22.6
8/27/2020	13	22.3	22.5	23.8	21.6	21.2	22.4	23.2	22.6
8/27/2020	14	22.3	22.5	24.5	22.3	22.0	23.3	23.2	22.6
8/27/2020	15	22.3	22.5	24.8	23.0	22.8	24.3	23.2	22.6
8/27/2020	16	22.4	22.5	24.7	23.5	23.4	25.1	23.3	22.7
8/27/2020	17	22.4	22.5	24.5	24.0	23.8	25.1	23.3	22.7
8/27/2020	18	22.4	22.5	23.9	24.2	24.1	24.8	23.3	22.8
8/27/2020	19	22.5	22.5	23.2	24.1	24.1	24.2	23.3	22.8
8/27/2020	20	22.5	22.5	22.5	23.7	23.8	23.8	23.3	22.8
8/27/2020	21	22.5	22.5	21.9	23.3	23.5	23.3	23.2	22.8
8/27/2020	22	22.5	22.6	21.4	22.8	23.0	23.0	23.2	22.8
8/27/2020	23	22.5	22.5	21.0	22.3	22.5	22.7	23.2	22.6
8/27/2020	24	22.5	22.5	20.7	21.7	21.9	22.1	23.2	22.7
8/28/2020	1	22.5	22.6	20.5	21.2	21.4	21.3	23.1	22.6
8/28/2020	2	22.6	22.6	20.4	20.7	21.0	20.6	23.1	22.6
8/28/2020	3	22.5	22.5	20.4	20.4	20.7	20.2	23.1	22.5
8/28/2020	4	22.5	22.5	20.5	20.2	20.4	19.9	23.1	22.5
8/28/2020	5	22.5	22.5	20.4	20.0	20.2	19.7	23.1	22.4
8/28/2020	6	22.5	22.4	20.4	19.9	20.1	19.5	23.1	22.4
8/28/2020	7	22.5	22.4	20.3	19.8	20.1	19.5	23.1	22.5
8/28/2020	8	22.4	22.4	20.4	20.0	20.0	20.1	23.0	22.5
8/28/2020	9	22.4	22.5	20.8	20.2	20.1	20.9	23.0	22.5
8/28/2020	10	22.4	22.5	21.4	20.3	20.2	21.4	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)
8/28/2020	11	22.4	22.5	22.2	20.5	20.4	21.7	23.1	22.5
8/28/2020	12	22.3	22.5	23.2	20.9	20.7	22.1	23.1	22.5
8/28/2020	13	22.3	22.5	24.0	21.7	21.4	22.6	23.2	22.6
8/28/2020	14	22.4	22.6	24.6	22.5	22.2	23.6	23.2	22.6
8/28/2020	15	22.4	22.6	25.0	23.3	23.0	24.6	23.2	22.7
8/28/2020	16	22.4	22.6	25.0	23.9	23.7	25.5	23.3	22.8
8/28/2020	17	22.5	22.6	24.7	24.3	24.1	25.6	23.3	22.8
8/28/2020	18	22.5	22.6	24.1	24.5	24.4	25.4	23.4	22.8
8/28/2020	19	22.5	22.6	23.3	24.4	24.4	25.0	23.4	22.8
8/28/2020	20	22.6	22.6	22.5	24.0	24.1	24.6	23.3	22.8
8/28/2020	21	22.6	22.7	21.9	23.5	23.6	24.1	23.3	22.8
8/28/2020	22	22.6	22.6	21.3	22.8	23.1	23.4	23.3	22.8
8/28/2020	23	22.6	22.6	21.2	22.2	22.5	22.6	23.2	22.7
8/28/2020	24	22.6	22.6	21.0	21.7	21.9	21.9	23.2	22.7
8/29/2020	1	22.6	22.6	20.9	21.3	21.5	21.4	23.1	22.7
8/29/2020	2	22.6	22.6	20.7	20.9	21.1	21.1	23.1	22.6
8/29/2020	3	22.6	22.5	20.5	20.7	20.9	20.6	23.1	22.6
8/29/2020	4	22.5	22.5	20.4	20.4	20.7	20.2	23.1	22.5
8/29/2020	5	22.5	22.5	20.4	20.2	20.4	19.9	23.1	22.5
8/29/2020	6	22.5	22.4	20.4	20.0	20.2	19.7	23.1	22.4
8/29/2020	7	22.4	22.4	20.3	19.8	20.1	19.5	23.1	22.5
8/29/2020	8	22.4	22.4	20.4	20.0	20.0	20.3	23.1	22.5
8/29/2020	9	22.4	22.4	20.9	20.1	20.1	21.2	23.1	22.5
8/29/2020	10	22.4	22.5	21.4	20.3	20.2	21.2	23.0	22.5
8/29/2020	11	22.4	22.4	22.1	20.5	20.4	21.5	23.0	22.5
8/29/2020	12	22.3	22.4	22.5	20.8	20.6	21.6	23.1	22.5
8/29/2020	13	22.3	22.4	23.0	21.3	21.1	22.1	23.1	22.4
8/29/2020	14	22.3	22.5	23.0	21.9	21.7	22.9	23.1	22.4
8/29/2020	15	22.4	22.5	23.4	22.3	22.1	23.3	23.1	22.5
8/29/2020	16	22.4	22.5	23.5	22.4	22.4	23.4	23.1	22.5
8/29/2020	17	22.4	22.5	23.2	22.6	22.5	23.4	23.1	22.5
8/29/2020	18	22.4	22.4	22.6	22.5	22.5	22.6	23.1	22.5
8/29/2020	19	22.4	22.4	21.8	22.4	22.5	22.3	23.0	22.5
8/29/2020	20	22.4	22.3	21.0	22.1	22.3	21.7	23.0	22.4
8/29/2020	21	22.3	22.3	20.5	21.7	21.9	21.4	22.9	22.4
8/29/2020	22	22.3	22.2	20.2	21.2	21.5	21.2	22.9	22.3
8/29/2020	23	22.2	22.1	20.1	20.5	20.9	20.5	22.8	22.1
8/29/2020	24	22.2	22.1	19.9	20.1	20.4	20.0	22.7	22.1
8/30/2020	1	22.1	22.0	19.8	19.7	20.0	19.4	22.7	22.1
8/30/2020	2	22.1	22.0	19.7	19.5	19.8	19.2	22.6	22.0
8/30/2020	3	22.0	21.9	19.7	19.3	19.6	19.0	22.6	21.9
8/30/2020	4	22.0	21.9	19.6	19.2	19.5	18.9	22.6	21.9
8/30/2020	5	22.0	21.8	19.5	19.1	19.3	18.5	22.5	21.8
8/30/2020	6	21.9	21.8	19.5	18.9	19.2	18.3	22.5	21.7
8/30/2020	7	21.9	21.8	19.4	18.8	19.1	18.2	22.5	21.6
8/30/2020	8	21.9	21.8	19.5	18.9	19.0	18.8	22.5	21.6
8/30/2020	9	21.8	21.8	19.9	19.1	19.0	19.4	22.5	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)
8/30/2020	10	21.8	21.8	20.4	19.2	19.2	20.0	22.5	21.4
8/30/2020	11	21.8	21.9	21.2	19.4	19.3	20.6	22.5	21.6
8/30/2020	12	21.8	21.9	22.1	19.8	19.6	20.7	22.6	21.7
8/30/2020	13	21.8	22.0	22.9	20.5	20.2	21.1	22.7	21.4
8/30/2020	14	21.9	22.0	23.5	21.1	20.9	21.9	22.7	22.2
8/30/2020	15	21.9	22.0	23.8	21.8	21.6	22.9	22.8	23.1
8/30/2020	16	21.9	22.0	23.8	22.4	22.3	23.7	22.9	23.0
8/30/2020	17	21.9	21.9	23.5	22.9	22.7	23.7	22.9	22.9
8/30/2020	18	21.9	21.9	22.8	23.1	22.9	23.3	23.0	22.5
8/30/2020	19	21.9	21.9	22.1	22.9	22.9	23.0	22.9	22.1
8/30/2020	20	21.9	21.8	21.4	22.5	22.6	22.5	22.8	21.9
8/30/2020	21	21.8	21.8	20.8	22.0	22.2	22.1	22.7	21.9
8/30/2020	22	21.8	21.8	20.4	21.4	21.7	21.6	22.6	21.9
8/30/2020	23	21.8	21.8	20.2	20.9	21.2	21.0	22.5	21.8
8/30/2020	24	21.8	21.8	20.0	20.4	20.7	20.4	22.5	21.6
8/31/2020	1	21.8	21.8	19.9	20.1	20.3	20.0	22.4	21.5
8/31/2020	2	21.8	21.8	19.8	19.8	20.0	19.7	22.3	21.5
8/31/2020	3	21.8	21.8	19.8	19.5	19.8	19.4	22.3	NA
8/31/2020	4	21.8	21.7	19.9	19.4	19.6	19.1	22.3	NA
8/31/2020	5	21.8	21.7	19.9	19.3	19.5	19.1	22.3	NA
8/31/2020	6	21.8	21.7	19.9	19.3	19.5	19.0	22.3	NA
8/31/2020	7	21.7	21.7	19.9	19.3	19.5	18.9	22.2	21.2
8/31/2020	8	21.7	21.7	19.9	19.5	19.5	19.7	22.2	21.5
8/31/2020	9	21.7	21.7	20.2	19.7	19.6	20.8	22.2	21.7
8/31/2020	10	21.6	21.7	20.7	19.8	19.7	21.1	22.2	21.7
8/31/2020	11	21.6	21.6	21.3	20.0	19.9	21.4	22.3	21.7
8/31/2020	12	21.5	21.6	22.2	20.2	20.1	21.4	22.3	21.7
8/31/2020	13	21.5	21.6	23.0	20.9	20.6	21.7	22.3	21.7
8/31/2020	14	21.5	21.7	23.6	21.6	21.3	22.4	22.3	21.7
8/31/2020	15	21.5	21.7	23.8	22.2	22.0	23.2	22.3	21.7
8/31/2020	16	21.6	21.7	23.8	22.8	22.6	24.1	22.3	21.8
8/31/2020	17	21.6	21.6	23.5	23.2	23.1	24.2	22.4	21.8
8/31/2020	18	21.6	21.7	23.0	23.4	23.3	23.8	22.4	21.8
8/31/2020	19	21.6	21.6	22.3	23.2	23.3	23.3	22.4	21.8
8/31/2020	20	21.6	21.6	21.8	22.9	23.0	22.8	22.3	21.8
8/31/2020	21	21.6	21.6	21.3	22.6	22.7	22.6	22.3	21.8
8/31/2020	22	21.6	21.6	20.8	22.1	22.3	22.2	22.3	21.8
8/31/2020	23	21.6	21.6	20.4	21.6	21.8	21.7	22.3	21.7
8/31/2020	24	21.6	21.6	20.2	21.1	21.3	21.2	22.3	21.7