

**From:** [Scott Hopkins](#)  
**To:** ["Josh Bell"](#); ["Travis Maitland"](#); ["Verhey, Patrick M \(DFW\)"](#); ["Mark Peterschmidt"](#); ["Breean Zimmerman"](#); ["damon.roberts@ecy.wa.gov"](#); ["Jim Pacheco"](#); ["Kari Grover Wier"](#); ["Hugh Anthony"](#); ["Rawhouser, Ashley K"](#); ["jody.walters@noaa.gov"](#); ["Justin Yeager"](#); ["Phil Archibald"](#); ["fisheries@ctuir.org"](#); ["Bret Nine"](#); ["blod@yakamafish-nsn.gov"](#); ["info@mansonparks.com"](#); ["bgoedde@cityofchelan.us"](#); ["wfarris@cityofchelan.us"](#); ["Bill Towey"](#); ["Thomas O'Keefe"](#); ["Nelle, RD"](#)  
**Cc:** [Martha Whiteman](#); [Kate Taylor](#); [Meaghan Connell](#); [Laura Clark](#)  
**Subject:** 2023 Chelan River Temperature Data - September Reports  
**Date:** Friday, October 20, 2023 2:12:06 PM  
**Attachments:** [image001.png](#)  
[2023 Chelan River Hourly Temperature Data September Report.pdf](#)  
[2023 Chelan River Daily Average Temperature Data September Report.pdf](#)

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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)  
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 III  
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: September 2023

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

Water temperature monitoring data for September 2023 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 data available and reported.

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



**Scott Hopkins**

Fisheries Biologist III

Chelan County P.U.D.

P: (509) 661-4763

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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)
9/1/2023	21.3	21.4	21.3	21.3	21.2	21.3	21.8	21.6
9/2/2023	21.0	21.1	21.2	21.3	21.2	21.3	21.7	21.5
9/3/2023	21.0	21.1	21.1	21.2	21.4	21.4	21.9	21.7
9/4/2023	21.4	21.6	21.1	21.1	21.1	21.1	21.6	21.3
9/5/2023	21.5	21.6	21.0	20.9	21.2	21.1	21.7	21.0
9/6/2023	21.4	21.4	21.0	20.9	21.2	21.1	21.7	20.5
9/7/2023	21.3	21.3	20.9	20.8	21.1	21.0	21.6	20.9
9/8/2023	21.1	21.2	20.8	20.8	21.0	21.0	21.5	21.3
9/9/2023	21.2	21.2	20.9	20.9	21.1	21.1	21.5	21.3
9/10/2023	21.2	21.3	20.8	20.8	21.1	21.0	21.6	21.4
9/11/2023	21.0	21.1	20.7	20.8	21.0	20.9	21.5	21.3
9/12/2023	20.9	21.0	20.3	20.3	20.2	20.2	21.3	21.1
9/13/2023	20.9	20.9	20.5	20.4	20.3	20.4	21.2	21.0
9/14/2023	21.0	21.1	20.5	20.4	20.3	20.4	21.4	21.1
9/15/2023	21.0	21.1	20.6	20.5	20.4	20.5	21.4	21.1
9/16/2023	20.8	20.9	20.2	20.3	20.2	20.3	21.2	21.0
9/17/2023	20.7	20.9	20.5	20.6	20.5	20.5	21.2	20.7
9/18/2023	20.4	20.5	20.0	20.1	20.1	20.1	20.7	20.0
9/19/2023	19.9	19.9	19.0	18.6	18.6	18.5	20.3	18.4
9/20/2023	19.5	19.5	18.5	18.1	18.2	18.1	19.9	18.5
9/21/2023	19.2	19.1	18.6	18.2	18.2	18.1	19.5	19.2
9/22/2023	19.2	19.2	18.8	18.7	18.7	18.6	19.4	19.3
9/23/2023	19.1	19.1	18.5	18.3	18.3	18.2	19.4	19.2
9/24/2023	18.8	18.8	18.3	18.0	18.0	17.9	19.1	18.8
9/25/2023	18.6	18.6	18.1	18.0	18.0	17.9	18.9	18.7
9/26/2023	18.5	18.5	18.2	18.1	18.1	18.0	18.9	18.6
9/27/2023	18.4	18.3	17.6	17.4	18.0	17.7	18.7	18.5
9/28/2023	18.1	18.0	17.4	17.2	17.8	17.5	18.4	18.2
9/29/2023	17.7	17.6	16.8	16.6	17.4	17.2	18.1	17.8
9/30/2023	17.5	17.4	16.8	16.5	17.2	17.0	17.9	17.6

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)
9/1/2023	1	21.6	21.6	20.4	20.4	20.4	20.4	21.8	21.6
9/1/2023	2	21.5	21.6	20.4	20.3	20.4	20.3	21.8	21.6
9/1/2023	3	21.5	21.6	20.4	20.3	20.3	20.2	21.8	21.6
9/1/2023	4	21.5	21.5	20.3	20.2	20.2	20.2	21.8	21.5
9/1/2023	5	21.5	21.5	20.2	20.2	20.2	20.1	21.7	21.5
9/1/2023	6	21.5	21.5	20.1	20.1	20.1	20.0	21.7	21.5
9/1/2023	7	21.5	21.5	20.1	20.0	20.1	20.0	21.7	21.6
9/1/2023	8	21.4	21.5	20.1	20.0	20.0	20.0	21.7	21.6
9/1/2023	9	21.4	21.5	20.3	20.2	20.0	20.0	21.8	21.6
9/1/2023	10	21.4	21.5	20.5	20.1	20.0	20.1	21.8	21.6
9/1/2023	11	21.4	21.6	21.2	20.6	20.2	20.5	21.8	21.6
9/1/2023	12	21.4	21.6	21.9	20.7	20.4	20.7	21.8	21.6
9/1/2023	13	21.4	21.7	22.7	21.2	20.7	21.1	21.8	21.7
9/1/2023	14	21.5	21.7	23.3	21.6	21.2	21.5	21.9	21.7
9/1/2023	15	21.5	21.7	23.5	22.3	21.8	22.2	21.9	21.8
9/1/2023	16	21.4	21.5	23.6	22.6	22.3	22.7	21.8	21.8
9/1/2023	17	21.3	21.3	23.4	23.0	22.7	23.0	21.8	21.8
9/1/2023	18	21.2	21.3	22.9	23.3	23.0	23.2	21.8	21.7
9/1/2023	19	21.1	21.2	22.3	23.3	23.1	23.2	21.8	21.7
9/1/2023	20	21.0	21.1	21.7	23.0	23.0	23.0	21.8	21.6
9/1/2023	21	21.0	21.1	21.1	22.7	22.7	22.8	21.8	21.6
9/1/2023	22	20.9	21.0	20.6	22.2	22.4	22.4	21.7	21.4
9/1/2023	23	20.9	21.0	20.3	21.7	21.9	21.9	21.7	21.3
9/1/2023	24	20.9	21.0	20.1	21.2	21.4	21.4	21.7	20.9
9/2/2023	1	20.9	20.9	19.9	20.7	20.9	20.9	21.7	21.3
9/2/2023	2	20.9	20.9	19.8	20.4	20.6	20.5	21.6	21.3
9/2/2023	3	20.8	20.8	19.7	20.1	20.3	20.2	21.6	21.3
9/2/2023	4	20.8	20.8	19.6	19.9	20.0	19.9	21.6	21.3
9/2/2023	5	20.8	20.8	19.5	19.7	19.8	19.7	21.6	21.3
9/2/2023	6	20.8	20.8	19.4	19.5	19.7	19.6	21.5	21.3
9/2/2023	7	20.9	20.9	19.4	19.5	20.0	19.6	21.6	21.3
9/2/2023	8	20.9	21.0	19.5	19.5	20.4	20.1	21.6	21.4
9/2/2023	9	21.0	21.2	19.9	19.7	20.6	20.3	21.6	21.4
9/2/2023	10	21.1	21.2	20.5	19.9	20.7	20.5	21.6	21.4
9/2/2023	11	21.1	21.3	21.3	20.1	20.7	20.7	21.6	21.5
9/2/2023	12	21.1	21.2	22.3	20.4	20.9	21.0	21.7	21.5
9/2/2023	13	21.1	21.4	23.1	21.0	21.3	21.3	21.7	21.6
9/2/2023	14	21.1	21.3	23.6	21.8	21.6	21.8	21.7	21.6
9/2/2023	15	21.0	21.2	23.9	22.6	21.9	22.3	21.8	21.6
9/2/2023	16	21.1	21.3	24.0	23.2	22.1	22.7	21.8	21.7
9/2/2023	17	21.1	21.2	23.7	23.6	22.2	22.9	21.8	21.7
9/2/2023	18	21.0	21.2	23.1	23.9	22.3	23.0	21.9	21.7
9/2/2023	19	21.0	21.2	22.4	23.8	22.2	22.9	21.9	21.7
9/2/2023	20	21.0	21.2	21.7	23.5	22.2	22.8	21.9	21.7
9/2/2023	21	21.0	21.2	21.2	23.1	22.1	22.5	21.9	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)
9/2/2023	22	21.1	21.2	20.8	22.6	22.0	22.3	21.9	21.8
9/2/2023	23	21.1	21.2	20.6	22.0	21.8	22.0	22.0	21.7
9/2/2023	24	21.1	21.2	20.4	21.5	21.7	21.7	21.9	21.7
9/3/2023	1	21.0	21.1	20.4	21.1	21.5	21.4	21.9	21.4
9/3/2023	2	21.0	21.1	20.3	20.8	21.4	21.2	21.9	21.7
9/3/2023	3	21.0	21.1	20.3	20.6	21.3	21.0	21.8	21.7
9/3/2023	4	21.0	21.1	20.2	20.5	21.2	20.9	21.8	21.6
9/3/2023	5	21.0	21.2	20.2	20.4	21.1	20.9	21.8	21.6
9/3/2023	6	21.1	21.2	20.2	20.3	21.1	20.8	21.7	21.6
9/3/2023	7	21.1	21.2	20.2	20.3	21.0	20.7	21.7	21.6
9/3/2023	8	21.1	21.2	20.2	20.3	21.0	20.7	21.7	21.4
9/3/2023	9	21.0	21.1	20.4	20.3	21.0	20.8	21.8	21.6
9/3/2023	10	20.9	21.1	20.8	20.4	21.0	20.8	21.8	21.6
9/3/2023	11	20.9	21.1	21.2	20.6	21.1	20.9	21.9	21.7
9/3/2023	12	20.9	21.1	21.7	20.9	21.2	21.2	22.0	21.8
9/3/2023	13	20.9	21.1	22.4	21.3	21.4	21.6	22.0	22.1
9/3/2023	14	20.9	21.1	22.8	21.7	21.6	21.8	22.0	22.1
9/3/2023	15	20.9	21.1	23.2	22.2	21.9	22.1	22.0	22.1
9/3/2023	16	20.9	21.1	23.0	22.5	22.0	22.3	22.0	22.0
9/3/2023	17	21.0	21.1	22.6	22.8	22.1	22.3	22.1	22.0
9/3/2023	18	21.0	21.1	22.0	22.8	22.1	22.3	22.1	21.9
9/3/2023	19	21.0	21.2	21.5	22.5	22.0	22.1	22.0	21.8
9/3/2023	20	21.1	21.2	20.9	22.2	21.9	21.9	22.0	21.8
9/3/2023	21	21.1	21.2	20.5	21.8	21.7	21.7	21.9	21.7
9/3/2023	22	21.1	21.2	20.3	21.4	21.6	21.5	21.9	21.7
9/3/2023	23	21.1	21.2	20.2	21.0	21.4	21.2	21.8	21.6
9/3/2023	24	21.1	21.2	20.1	20.7	21.2	21.0	21.8	21.5
9/4/2023	1	21.1	21.3	20.1	20.4	21.1	20.8	21.7	20.1
9/4/2023	2	21.2	21.3	20.0	20.2	20.9	20.7	21.7	19.8
9/4/2023	3	21.2	21.3	20.0	20.1	20.8	20.5	21.6	21.2
9/4/2023	4	21.2	21.3	20.0	20.0	20.7	20.4	21.5	21.2
9/4/2023	5	21.2	21.3	19.9	19.8	20.7	20.3	21.5	21.2
9/4/2023	6	21.3	21.4	19.9	19.8	20.6	20.2	21.4	21.1
9/4/2023	7	21.3	21.4	19.9	19.8	20.5	20.2	21.3	21.1
9/4/2023	8	21.4	21.5	19.9	19.8	20.5	20.2	21.3	21.0
9/4/2023	9	21.4	21.5	20.1	19.9	20.5	20.3	21.4	21.0
9/4/2023	10	21.4	21.6	20.5	20.1	20.5	20.4	21.4	21.0
9/4/2023	11	21.5	21.7	20.9	20.3	20.7	20.6	21.5	21.1
9/4/2023	12	21.5	21.7	21.5	20.5	20.8	20.8	21.6	21.3
9/4/2023	13	21.5	21.8	22.2	20.9	21.0	21.2	21.6	21.7
9/4/2023	14	21.5	21.8	23.0	21.4	21.3	21.5	21.7	21.9
9/4/2023	15	21.5	21.7	23.5	22.0	21.5	21.8	21.7	22.0
9/4/2023	16	21.6	21.7	23.5	22.3	21.7	22.1	21.8	22.1
9/4/2023	17	21.6	21.7	23.1	22.8	21.9	22.3	21.7	22.2
9/4/2023	18	21.6	21.7	22.6	23.1	21.9	22.4	21.7	22.0

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)
9/4/2023	19	21.6	21.7	22.1	23.1	21.9	22.3	21.7	21.8
9/4/2023	20	21.5	21.6	21.5	22.7	21.8	22.2	21.7	21.7
9/4/2023	21	21.5	21.6	21.0	22.3	21.7	22.0	21.7	21.6
9/4/2023	22	21.5	21.6	20.6	21.9	21.6	21.7	21.7	21.5
9/4/2023	23	21.5	21.6	20.2	21.5	21.4	21.4	21.7	21.5
9/4/2023	24	21.5	21.6	20.0	21.0	21.3	21.2	21.6	19.2
9/5/2023	1	21.5	21.6	19.9	20.6	21.1	20.9	21.6	18.5
9/5/2023	2	21.5	21.6	19.7	20.2	20.9	20.6	21.6	21.0
9/5/2023	3	21.6	21.6	19.6	19.9	20.7	20.4	21.5	21.0
9/5/2023	4	21.6	21.6	19.5	19.7	20.6	20.2	21.5	20.9
9/5/2023	5	21.6	21.6	19.5	19.5	20.4	20.1	21.5	21.0
9/5/2023	6	21.6	21.6	19.6	19.3	20.3	19.9	21.4	20.9
9/5/2023	7	21.6	21.6	19.6	19.2	20.4	19.9	21.5	21.7
9/5/2023	8	21.6	21.6	19.6	19.2	20.5	20.1	21.7	21.7
9/5/2023	9	21.5	21.6	20.0	19.6	20.7	20.2	21.9	21.7
9/5/2023	10	21.5	21.6	20.4	19.8	20.7	20.5	21.9	21.7
9/5/2023	11	21.5	21.6	21.1	20.0	20.9	20.7	21.9	21.7
9/5/2023	12	21.4	21.6	21.9	20.3	21.1	20.9	21.9	21.7
9/5/2023	13	21.4	21.6	22.8	20.8	21.3	21.2	21.9	21.7
9/5/2023	14	21.4	21.6	23.4	21.6	21.6	21.7	21.9	21.7
9/5/2023	15	21.4	21.6	23.6	22.3	21.9	22.1	21.9	21.7
9/5/2023	16	21.4	21.6	23.6	22.7	22.0	22.4	21.9	21.8
9/5/2023	17	21.5	21.6	23.2	23.1	22.1	22.6	21.9	21.9
9/5/2023	18	21.5	21.6	22.6	23.3	22.1	22.6	21.9	21.7
9/5/2023	19	21.5	21.6	21.9	23.2	22.1	22.5	21.9	21.7
9/5/2023	20	21.5	21.6	21.2	22.8	22.0	22.3	21.8	21.6
9/5/2023	21	21.5	21.6	20.5	22.2	21.8	21.9	21.8	21.5
9/5/2023	22	21.5	21.6	20.2	21.6	21.7	21.6	21.8	20.3
9/5/2023	23	21.5	21.6	20.2	21.1	21.5	21.3	21.8	17.5
9/5/2023	24	21.5	21.6	20.1	20.6	21.2	21.0	21.8	17.0
9/6/2023	1	21.5	21.6	20.0	20.3	21.1	20.8	21.8	17.9
9/6/2023	2	21.5	21.6	20.0	20.1	20.9	20.6	21.8	19.5
9/6/2023	3	21.5	21.5	19.9	19.9	20.9	20.5	21.7	18.5
9/6/2023	4	21.5	21.5	19.9	19.8	20.8	20.4	21.7	18.8
9/6/2023	5	21.4	21.5	19.9	19.7	20.7	20.3	21.7	19.9
9/6/2023	6	21.4	21.5	19.9	19.6	20.6	20.2	21.7	20.9
9/6/2023	7	21.4	21.4	19.9	19.6	20.7	20.2	21.6	21.5
9/6/2023	8	21.4	21.4	19.9	19.6	20.7	20.3	21.6	21.5
9/6/2023	9	21.4	21.4	20.0	19.7	20.7	20.3	21.7	21.5
9/6/2023	10	21.3	21.4	20.3	19.9	20.8	20.5	21.7	21.5
9/6/2023	11	21.3	21.4	21.0	20.2	20.9	20.7	21.7	21.5
9/6/2023	12	21.2	21.4	22.0	20.5	21.0	21.0	21.7	21.4
9/6/2023	13	21.2	21.4	22.7	20.7	21.2	21.2	21.7	21.4
9/6/2023	14	21.2	21.4	23.3	21.4	21.4	21.5	21.7	21.5
9/6/2023	15	21.3	21.5	23.6	22.0	21.7	21.9	21.7	21.5

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)
9/6/2023	16	21.3	21.4	23.5	22.5	21.8	22.2	21.7	21.6
9/6/2023	17	21.3	21.4	23.1	22.9	21.9	22.4	21.7	21.7
9/6/2023	18	21.3	21.4	22.4	23.1	22.0	22.4	21.7	21.6
9/6/2023	19	21.4	21.4	21.7	23.0	22.0	22.3	21.7	21.6
9/6/2023	20	21.4	21.4	21.0	22.6	21.8	22.0	21.7	21.6
9/6/2023	21	21.4	21.4	20.5	22.0	21.7	21.7	21.7	21.5
9/6/2023	22	21.4	21.4	20.2	21.4	21.5	21.4	21.7	19.4
9/6/2023	23	21.4	21.4	19.9	20.9	21.2	21.1	21.7	17.2
9/6/2023	24	21.4	21.4	19.8	20.5	21.1	20.8	21.7	17.9
9/7/2023	1	21.4	21.4	19.7	20.1	20.9	20.6	21.6	20.2
9/7/2023	2	21.4	21.4	19.6	19.8	20.8	20.4	21.6	16.6
9/7/2023	3	21.4	21.4	19.5	19.6	20.6	20.2	21.5	17.6
9/7/2023	4	21.3	21.3	19.5	19.5	20.5	20.1	21.5	20.9
9/7/2023	5	21.3	21.3	19.4	19.3	20.4	20.0	21.5	19.7
9/7/2023	6	21.3	21.2	19.3	19.2	20.3	19.8	21.4	20.3
9/7/2023	7	21.3	21.2	19.3	19.2	20.3	19.9	21.4	21.3
9/7/2023	8	21.2	21.3	19.4	19.2	20.4	20.0	21.4	21.3
9/7/2023	9	21.2	21.3	19.7	19.3	20.4	20.0	21.4	21.3
9/7/2023	10	21.2	21.3	20.3	19.6	20.4	20.2	21.5	21.3
9/7/2023	11	21.2	21.3	21.0	19.7	20.6	20.4	21.5	21.3
9/7/2023	12	21.2	21.3	21.8	20.0	20.7	20.7	21.5	21.4
9/7/2023	13	21.2	21.4	22.6	20.5	21.0	21.0	21.5	21.4
9/7/2023	14	21.2	21.4	23.1	21.3	21.3	21.4	21.6	21.5
9/7/2023	15	21.3	21.4	23.5	22.0	21.6	21.9	21.6	21.5
9/7/2023	16	21.3	21.4	23.5	22.5	21.8	22.2	21.6	21.6
9/7/2023	17	21.3	21.4	23.1	22.9	21.9	22.4	21.7	21.6
9/7/2023	18	21.3	21.4	22.5	23.2	21.9	22.5	21.7	21.6
9/7/2023	19	21.3	21.4	21.8	23.1	21.9	22.4	21.7	21.6
9/7/2023	20	21.3	21.4	21.2	22.8	21.8	22.3	21.7	21.5
9/7/2023	21	21.3	21.3	20.8	22.3	21.7	22.0	21.7	21.4
9/7/2023	22	21.3	21.3	20.4	21.7	21.5	21.7	21.7	21.4
9/7/2023	23	21.3	21.3	20.1	21.3	21.4	21.3	21.6	21.3
9/7/2023	24	21.3	21.3	19.9	20.8	21.2	21.0	21.6	21.4
9/8/2023	1	21.3	21.3	19.7	20.4	21.0	20.8	21.6	21.4
9/8/2023	2	21.3	21.3	19.6	20.1	20.9	20.6	21.5	21.3
9/8/2023	3	21.3	21.3	19.5	19.8	20.7	20.4	21.5	21.3
9/8/2023	4	21.2	21.2	19.4	19.6	20.6	20.2	21.5	21.3
9/8/2023	5	21.2	21.2	19.4	19.4	20.5	20.1	21.5	21.3
9/8/2023	6	21.1	21.1	19.4	19.2	20.4	20.0	21.4	21.2
9/8/2023	7	21.1	21.1	19.4	19.2	20.3	19.9	21.4	21.2
9/8/2023	8	21.1	21.1	19.4	19.2	20.3	19.8	21.4	21.1
9/8/2023	9	21.0	21.1	19.7	19.5	20.3	20.0	21.3	21.1
9/8/2023	10	21.0	21.1	20.2	19.7	20.4	20.2	21.3	21.1
9/8/2023	11	21.0	21.1	20.9	19.8	20.5	20.3	21.3	21.1
9/8/2023	12	21.0	21.1	21.7	20.1	20.7	20.6	21.3	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)
9/8/2023	13	21.0	21.2	22.5	20.5	20.9	20.9	21.4	21.2
9/8/2023	14	21.0	21.2	23.0	21.2	21.2	21.3	21.4	21.2
9/8/2023	15	21.1	21.2	23.3	22.0	21.5	21.8	21.4	21.3
9/8/2023	16	21.1	21.3	23.4	22.4	21.7	22.1	21.5	21.4
9/8/2023	17	21.1	21.2	23.0	22.8	21.7	22.3	21.5	21.5
9/8/2023	18	21.1	21.2	22.3	23.1	21.7	22.4	21.6	21.5
9/8/2023	19	21.2	21.3	21.7	23.1	21.8	22.3	21.6	21.5
9/8/2023	20	21.2	21.2	21.2	22.8	21.7	22.2	21.6	21.5
9/8/2023	21	21.2	21.2	20.7	22.3	21.7	21.9	21.6	21.5
9/8/2023	22	21.1	21.2	20.4	21.8	21.5	21.7	21.6	21.5
9/8/2023	23	21.2	21.2	20.1	21.3	21.3	21.3	21.6	21.4
9/8/2023	24	21.2	21.2	19.9	20.8	21.2	21.0	21.5	21.3
9/9/2023	1	21.2	21.2	19.7	20.4	21.0	20.8	21.5	21.2
9/9/2023	2	21.2	21.2	19.6	20.1	20.9	20.5	21.5	21.1
9/9/2023	3	21.2	21.2	19.5	19.8	20.7	20.3	21.5	21.2
9/9/2023	4	21.2	21.2	19.4	19.6	20.6	20.2	21.5	21.2
9/9/2023	5	21.1	21.1	19.3	19.4	20.5	20.1	21.4	21.2
9/9/2023	6	21.1	21.1	19.2	19.2	20.4	20.0	21.4	21.2
9/9/2023	7	21.1	21.1	19.2	19.1	20.3	19.9	21.4	21.1
9/9/2023	8	21.1	21.1	19.2	19.1	20.3	19.8	21.4	21.1
9/9/2023	9	21.0	21.1	19.6	19.4	20.3	19.9	21.4	21.1
9/9/2023	10	21.0	21.1	20.2	19.6	20.4	20.1	21.4	21.2
9/9/2023	11	21.0	21.2	20.9	19.6	20.4	20.3	21.3	21.2
9/9/2023	12	21.1	21.2	21.8	20.0	20.6	20.6	21.4	21.2
9/9/2023	13	21.1	21.3	22.7	20.4	20.9	20.9	21.4	21.3
9/9/2023	14	21.1	21.3	23.2	21.3	21.3	21.4	21.5	21.4
9/9/2023	15	21.1	21.3	23.5	22.1	21.6	21.9	21.5	21.5
9/9/2023	16	21.2	21.3	23.6	22.6	21.8	22.3	21.6	21.6
9/9/2023	17	21.2	21.3	23.2	23.0	21.9	22.5	21.6	21.6
9/9/2023	18	21.2	21.3	22.6	23.3	21.9	22.6	21.7	21.5
9/9/2023	19	21.2	21.3	22.0	23.2	21.9	22.5	21.7	21.6
9/9/2023	20	21.2	21.3	21.4	22.9	21.8	22.3	21.7	21.6
9/9/2023	21	21.2	21.3	20.9	22.6	21.7	22.1	21.7	21.5
9/9/2023	22	21.2	21.2	20.5	22.0	21.6	21.8	21.7	21.5
9/9/2023	23	21.2	21.2	20.2	21.5	21.5	21.5	21.6	21.5
9/9/2023	24	21.2	21.2	20.0	21.0	21.3	21.2	21.6	21.2
9/10/2023	1	21.1	21.1	19.8	20.5	21.1	20.9	21.6	21.3
9/10/2023	2	21.1	21.1	19.7	20.2	20.9	20.6	21.5	21.3
9/10/2023	3	21.1	21.1	19.6	19.9	20.8	20.4	21.5	21.2
9/10/2023	4	21.0	21.0	19.4	19.7	20.7	20.3	21.5	21.2
9/10/2023	5	21.0	21.0	19.3	19.5	20.6	20.1	21.5	21.2
9/10/2023	6	21.0	21.0	19.2	19.3	20.5	20.0	21.5	21.2
9/10/2023	7	21.0	21.0	19.2	19.2	20.4	19.9	21.5	21.2
9/10/2023	8	21.1	21.1	19.2	19.1	20.3	19.9	21.4	21.2
9/10/2023	9	21.0	21.1	19.6	19.3	20.3	19.9	21.4	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)
9/10/2023	10	21.1	21.2	20.1	19.5	20.4	20.1	21.4	21.2
9/10/2023	11	21.0	21.2	20.7	19.6	20.5	20.3	21.4	21.2
9/10/2023	12	21.1	21.2	21.4	19.7	20.5	20.4	21.4	21.3
9/10/2023	13	21.1	21.4	22.4	20.4	20.9	20.9	21.5	21.4
9/10/2023	14	21.2	21.4	23.0	21.1	21.3	21.3	21.6	21.4
9/10/2023	15	21.2	21.4	23.3	21.7	21.5	21.6	21.6	21.5
9/10/2023	16	21.3	21.5	23.4	22.4	21.7	22.1	21.7	21.6
9/10/2023	17	21.3	21.5	23.0	22.8	21.9	22.3	21.8	21.7
9/10/2023	18	21.3	21.5	22.6	23.0	21.9	22.4	21.8	21.7
9/10/2023	19	21.3	21.4	22.0	23.0	21.9	22.4	21.9	21.7
9/10/2023	20	21.3	21.4	21.4	22.8	21.9	22.3	21.9	21.6
9/10/2023	21	21.3	21.4	20.9	22.4	21.8	22.1	21.9	21.6
9/10/2023	22	21.4	21.4	20.6	21.9	21.7	21.8	21.8	21.7
9/10/2023	23	21.3	21.4	20.3	21.5	21.6	21.6	21.8	21.6
9/10/2023	24	21.3	21.4	20.2	21.0	21.4	21.3	21.8	21.5
9/11/2023	1	21.3	21.3	20.1	20.6	21.3	21.0	21.7	21.5
9/11/2023	2	21.3	21.3	20.0	20.3	21.1	20.8	21.7	21.4
9/11/2023	3	21.2	21.2	19.9	20.1	21.0	20.6	21.7	21.4
9/11/2023	4	21.2	21.2	19.8	20.0	20.9	20.5	21.6	21.4
9/11/2023	5	21.2	21.2	19.8	19.8	20.8	20.4	21.6	21.4
9/11/2023	6	21.2	21.2	19.7	19.7	20.7	20.3	21.6	21.4
9/11/2023	7	21.2	21.2	19.7	19.7	20.7	20.3	21.6	21.4
9/11/2023	8	21.2	21.3	19.8	19.6	20.6	20.3	21.5	21.4
9/11/2023	9	21.2	21.3	20.1	19.7	19.9	20.0	21.5	21.4
9/11/2023	10	21.2	21.3	20.5	19.8	19.8	19.8	21.5	21.4
9/11/2023	11	21.2	21.3	20.9	20.1	19.9	20.0	21.5	21.4
9/11/2023	12	21.2	21.3	21.5	20.6	20.2	20.4	21.5	21.4
9/11/2023	13	21.2	21.4	22.1	21.0	20.7	20.9	21.5	21.4
9/11/2023	14	21.1	21.2	22.3	21.4	21.1	21.3	21.5	21.4
9/11/2023	15	21.0	21.2	22.4	21.9	21.6	21.7	21.5	21.4
9/11/2023	16	21.0	21.1	22.3	22.2	21.9	22.0	21.5	21.4
9/11/2023	17	20.8	21.0	22.0	22.3	22.0	22.2	21.5	21.3
9/11/2023	18	20.8	20.9	21.6	22.3	22.1	22.2	21.5	21.3
9/11/2023	19	20.7	20.8	21.2	22.1	22.0	22.0	21.5	21.2
9/11/2023	20	20.7	20.7	20.7	21.8	21.8	21.8	21.4	21.2
9/11/2023	21	20.6	20.7	20.4	21.4	21.5	21.4	21.4	21.2
9/11/2023	22	20.6	20.7	20.1	21.0	21.1	21.0	21.4	21.2
9/11/2023	23	20.6	20.7	19.8	20.7	20.8	20.7	21.4	21.2
9/11/2023	24	20.6	20.7	19.7	20.4	20.5	20.4	21.3	21.1
9/12/2023	1	20.6	20.7	19.5	20.1	20.2	20.1	21.3	21.1
9/12/2023	2	20.8	20.9	19.4	19.8	19.9	19.8	21.3	21.1
9/12/2023	3	20.9	21.0	19.3	19.6	19.7	19.6	21.3	21.2
9/12/2023	4	20.9	20.9	19.2	19.4	19.5	19.4	21.3	21.1
9/12/2023	5	20.9	21.0	19.2	19.3	19.4	19.3	21.2	21.1
9/12/2023	6	20.9	20.9	19.2	19.2	19.2	19.1	21.2	21.1

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)
9/12/2023	7	20.9	20.9	19.2	19.0	19.1	19.0	21.2	21.0
9/12/2023	8	20.9	20.9	19.3	19.0	19.0	18.9	21.2	21.0
9/12/2023	9	20.9	21.0	19.7	19.2	19.0	19.1	21.1	21.0
9/12/2023	10	20.9	21.0	20.0	19.4	19.1	19.2	21.1	21.0
9/12/2023	11	20.9	21.0	20.6	19.5	19.2	19.4	21.2	21.0
9/12/2023	12	20.9	21.1	21.0	19.8	19.5	19.6	21.2	21.1
9/12/2023	13	20.9	21.1	21.5	20.2	19.9	20.1	21.3	21.1
9/12/2023	14	20.9	21.2	22.2	20.9	20.4	20.8	21.3	21.2
9/12/2023	15	21.0	21.1	22.4	21.3	20.9	21.2	21.3	21.2
9/12/2023	16	21.0	21.2	22.2	21.7	21.3	21.4	21.4	21.2
9/12/2023	17	21.0	21.2	21.9	22.0	21.7	21.8	21.4	21.2
9/12/2023	18	21.0	21.2	21.4	22.0	21.8	21.8	21.4	21.2
9/12/2023	19	21.1	21.2	20.8	21.7	21.7	21.7	21.3	21.2
9/12/2023	20	21.1	21.1	20.4	21.4	21.4	21.3	21.3	21.2
9/12/2023	21	21.1	21.1	20.1	21.1	21.2	21.1	21.3	21.1
9/12/2023	22	21.1	21.1	19.9	20.7	20.8	20.7	21.3	21.1
9/12/2023	23	21.0	21.1	19.7	20.3	20.4	20.3	21.3	21.0
9/12/2023	24	21.0	21.0	19.7	20.0	20.1	20.0	21.3	20.9
9/13/2023	1	21.0	21.0	19.6	19.7	19.9	19.7	21.2	20.9
9/13/2023	2	20.9	21.0	19.5	19.5	19.7	19.5	21.2	21.0
9/13/2023	3	20.9	20.9	19.4	19.4	19.5	19.4	21.2	20.9
9/13/2023	4	20.9	20.9	19.3	19.2	19.4	19.2	21.1	20.9
9/13/2023	5	20.8	20.8	19.2	19.1	19.3	19.1	21.1	20.9
9/13/2023	6	20.8	20.8	19.1	19.0	19.2	19.0	21.1	20.9
9/13/2023	7	20.8	20.7	19.0	18.9	19.0	18.9	21.0	20.9
9/13/2023	8	20.7	20.7	19.0	18.9	18.9	18.8	21.0	20.8
9/13/2023	9	20.7	20.7	19.4	19.3	18.9	18.9	21.0	20.8
9/13/2023	10	20.7	20.8	19.9	19.4	19.0	19.2	21.1	20.8
9/13/2023	11	20.7	20.8	20.7	19.6	19.2	19.4	21.1	20.9
9/13/2023	12	20.7	20.9	21.5	19.8	19.4	19.7	21.1	20.9
9/13/2023	13	20.8	20.9	22.3	20.2	19.8	20.2	21.1	21.0
9/13/2023	14	20.8	21.0	22.8	21.0	20.5	20.8	21.2	21.1
9/13/2023	15	20.8	21.0	23.0	21.7	21.2	21.5	21.2	21.2
9/13/2023	16	20.9	21.0	23.0	22.1	21.7	22.0	21.3	21.3
9/13/2023	17	20.9	21.0	22.6	22.6	22.2	22.4	21.3	21.3
9/13/2023	18	20.9	21.0	22.0	22.8	22.5	22.6	21.3	21.3
9/13/2023	19	20.9	21.0	21.3	22.6	22.4	22.5	21.4	21.3
9/13/2023	20	21.0	21.0	20.7	22.2	22.2	22.3	21.4	21.2
9/13/2023	21	21.0	21.1	20.3	21.7	21.9	21.9	21.4	21.3
9/13/2023	22	21.0	21.1	19.9	21.2	21.4	21.3	21.5	21.3
9/13/2023	23	21.1	21.1	19.7	20.6	20.9	20.8	21.5	21.1
9/13/2023	24	21.1	21.1	19.5	20.2	20.4	20.3	21.4	21.1
9/14/2023	1	21.1	21.1	19.4	19.8	20.0	19.9	21.4	21.1
9/14/2023	2	21.1	21.0	19.3	19.5	19.7	19.6	21.4	21.1
9/14/2023	3	21.0	21.0	19.2	19.2	19.4	19.3	21.4	21.1

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)
9/14/2023	4	21.0	21.0	19.1	19.0	19.2	19.1	21.4	21.1
9/14/2023	5	21.0	21.0	19.0	18.8	19.1	18.9	21.4	21.0
9/14/2023	6	21.0	21.0	19.0	18.7	18.9	18.8	21.4	21.0
9/14/2023	7	20.9	20.9	18.9	18.6	18.8	18.7	21.3	21.0
9/14/2023	8	20.9	20.9	18.9	18.6	18.7	18.6	21.3	20.9
9/14/2023	9	20.9	20.9	19.3	19.1	18.7	18.7	21.3	20.9
9/14/2023	10	20.8	20.9	19.8	19.2	18.8	18.9	21.3	21.0
9/14/2023	11	20.8	21.0	20.5	19.4	18.9	19.2	21.3	21.0
9/14/2023	12	20.8	21.0	21.4	19.7	19.2	19.5	21.3	21.0
9/14/2023	13	20.9	21.0	22.3	20.1	19.6	20.0	21.3	21.1
9/14/2023	14	20.9	21.1	22.9	20.8	20.3	20.7	21.3	21.2
9/14/2023	15	20.9	21.1	23.2	21.6	21.1	21.4	21.3	21.2
9/14/2023	16	21.0	21.2	23.2	22.2	21.7	22.1	21.4	21.3
9/14/2023	17	21.0	21.1	22.8	22.7	22.3	22.5	21.4	21.4
9/14/2023	18	21.0	21.2	22.2	22.9	22.6	22.7	21.4	21.4
9/14/2023	19	21.1	21.2	21.6	22.8	22.6	22.7	21.4	21.4
9/14/2023	20	21.1	21.1	21.0	22.5	22.4	22.5	21.5	21.3
9/14/2023	21	21.1	21.2	20.5	22.0	22.1	22.1	21.5	21.2
9/14/2023	22	21.1	21.2	20.1	21.4	21.6	21.6	21.5	21.3
9/14/2023	23	21.1	21.2	19.8	20.9	21.1	21.1	21.5	21.2
9/14/2023	24	21.1	21.2	19.7	20.4	20.6	20.6	21.5	21.0
9/15/2023	1	21.1	21.2	19.5	19.9	20.2	20.1	21.5	21.0
9/15/2023	2	21.1	21.1	19.4	19.6	19.8	19.7	21.5	21.0
9/15/2023	3	21.1	21.1	19.3	19.4	19.6	19.5	21.4	21.0
9/15/2023	4	21.1	21.1	19.3	19.2	19.4	19.3	21.4	20.9
9/15/2023	5	21.0	21.0	19.2	19.0	19.2	19.1	21.4	20.9
9/15/2023	6	21.0	21.0	19.1	18.8	19.1	18.9	21.4	20.9
9/15/2023	7	21.0	20.9	19.0	18.7	18.9	18.8	21.4	21.0
9/15/2023	8	20.9	20.9	19.0	18.6	18.8	18.7	21.4	20.8
9/15/2023	9	20.9	20.9	19.3	19.1	18.8	18.8	21.4	20.8
9/15/2023	10	20.9	21.0	19.8	19.3	18.9	19.0	21.4	21.0
9/15/2023	11	20.9	21.0	20.6	19.5	19.0	19.3	21.4	21.0
9/15/2023	12	20.9	21.0	21.5	19.7	19.2	19.6	21.4	21.1
9/15/2023	13	20.9	21.1	22.4	20.2	19.7	20.1	21.3	21.2
9/15/2023	14	21.0	21.2	22.9	21.0	20.4	20.8	21.3	21.2
9/15/2023	15	21.0	21.2	23.2	21.7	21.2	21.6	21.4	21.3
9/15/2023	16	21.0	21.2	23.2	22.3	21.9	22.2	21.4	21.4
9/15/2023	17	21.1	21.2	22.9	22.8	22.4	22.7	21.4	21.4
9/15/2023	18	21.1	21.2	22.3	23.0	22.7	22.8	21.4	21.4
9/15/2023	19	21.1	21.2	21.7	22.9	22.8	22.8	21.4	21.4
9/15/2023	20	21.1	21.1	21.1	22.6	22.6	22.6	21.5	21.3
9/15/2023	21	21.1	21.1	20.6	22.1	22.2	22.2	21.5	21.2
9/15/2023	22	21.1	21.1	20.2	21.6	21.7	21.7	21.5	21.2
9/15/2023	23	21.1	21.1	19.9	21.0	21.2	21.2	21.5	21.1
9/15/2023	24	21.1	21.1	19.7	20.6	20.8	20.7	21.5	21.1

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)
9/16/2023	1	21.0	21.1	19.6	20.1	20.3	20.2	21.4	21.1
9/16/2023	2	21.0	21.0	19.5	19.8	20.0	19.9	21.4	21.0
9/16/2023	3	21.0	21.0	19.4	19.5	19.7	19.6	21.4	21.0
9/16/2023	4	21.0	21.0	19.3	19.3	19.5	19.4	21.3	21.0
9/16/2023	5	20.9	20.9	19.2	19.1	19.3	19.2	21.3	21.0
9/16/2023	6	20.9	20.8	19.1	19.0	19.2	19.1	21.3	21.0
9/16/2023	7	20.8	20.8	19.0	18.8	19.0	18.9	21.3	21.0
9/16/2023	8	20.8	20.8	19.0	18.7	18.9	18.8	21.2	20.8
9/16/2023	9	20.8	20.8	19.3	19.1	18.9	18.9	21.2	20.8
9/16/2023	10	20.7	20.8	19.8	19.3	18.9	19.0	21.2	20.8
9/16/2023	11	20.6	20.8	20.4	19.5	19.0	19.3	21.2	20.9
9/16/2023	12	20.7	20.8	21.2	20.1	19.6	19.7	21.2	20.9
9/16/2023	13	20.7	20.8	21.5	21.4	21.1	21.4	21.1	20.9
9/16/2023	14	20.7	20.9	21.7	21.8	21.6	21.8	21.1	21.0
9/16/2023	15	20.7	20.8	21.6	22.0	21.8	22.0	21.1	21.0
9/16/2023	16	20.7	20.8	21.5	21.8	21.8	21.9	21.1	21.0
9/16/2023	17	20.7	20.9	21.3	21.7	21.7	21.8	21.2	21.1
9/16/2023	18	20.8	21.0	20.9	21.5	21.5	21.5	21.2	21.0
9/16/2023	19	20.7	20.8	20.7	21.1	21.1	21.2	21.2	21.1
9/16/2023	20	20.7	20.8	20.6	20.8	20.8	20.8	21.2	21.1
9/16/2023	21	20.8	20.9	20.4	20.7	20.7	20.7	21.2	21.0
9/16/2023	22	20.8	21.0	20.4	20.5	20.5	20.5	21.2	21.0
9/16/2023	23	20.8	20.9	20.3	20.4	20.4	20.4	21.2	21.0
9/16/2023	24	20.8	21.0	20.4	20.4	20.3	20.3	21.2	21.1
9/17/2023	1	20.8	20.9	20.3	20.4	20.3	20.3	21.2	21.0
9/17/2023	2	20.8	21.0	20.4	20.4	20.3	20.3	21.2	21.0
9/17/2023	3	20.8	20.9	20.4	20.4	20.3	20.3	21.1	20.9
9/17/2023	4	20.8	20.9	20.4	20.4	20.4	20.4	21.1	21.0
9/17/2023	5	20.8	20.9	20.3	20.4	20.3	20.3	21.1	20.8
9/17/2023	6	20.8	20.8	20.3	20.3	20.3	20.3	21.1	20.8
9/17/2023	7	20.7	20.8	20.3	20.3	20.3	20.3	21.1	20.9
9/17/2023	8	20.7	20.8	20.3	20.3	20.2	20.2	21.2	20.9
9/17/2023	9	20.7	20.8	20.4	20.4	20.3	20.3	21.2	20.9
9/17/2023	10	20.6	20.8	20.4	20.4	20.4	20.4	21.3	20.9
9/17/2023	11	20.7	20.8	20.6	20.5	20.4	20.5	21.3	21.0
9/17/2023	12	20.7	20.8	21.0	20.8	20.6	20.7	21.3	21.0
9/17/2023	13	20.7	20.9	21.2	21.1	20.9	21.0	21.4	21.1
9/17/2023	14	20.7	20.9	21.1	21.3	21.1	21.2	21.4	21.1
9/17/2023	15	20.7	20.9	21.0	21.2	21.1	21.2	21.4	21.1
9/17/2023	16	20.7	20.9	20.9	21.0	21.0	21.0	21.3	21.2
9/17/2023	17	20.8	20.9	20.8	20.9	20.9	21.0	21.2	21.1
9/17/2023	18	20.8	20.9	20.6	20.8	20.8	20.8	21.2	21.0
9/17/2023	19	20.8	20.9	20.4	20.6	20.6	20.5	21.1	20.9
9/17/2023	20	20.8	20.9	20.3	20.4	20.4	20.3	21.1	20.9
9/17/2023	21	20.8	20.9	20.2	20.2	20.2	20.2	21.0	19.6

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)
9/17/2023	22	20.8	20.8	20.3	20.2	20.2	20.2	21.0	19.5
9/17/2023	23	20.7	20.8	20.3	20.2	20.2	20.2	20.9	18.8
9/17/2023	24	20.7	20.8	20.2	20.3	20.2	20.2	20.9	20.4
9/18/2023	1	20.7	20.8	20.2	20.2	20.2	20.2	20.9	20.6
9/18/2023	2	20.6	20.7	20.2	20.2	20.1	20.1	20.8	20.6
9/18/2023	3	20.6	20.7	20.2	20.2	20.1	20.1	20.8	20.5
9/18/2023	4	20.6	20.7	20.1	20.1	20.1	20.1	20.8	20.6
9/18/2023	5	20.6	20.7	20.0	20.1	20.0	20.0	20.7	20.5
9/18/2023	6	20.5	20.6	19.9	20.0	19.9	19.9	20.7	20.5
9/18/2023	7	20.5	20.6	20.0	19.9	19.9	19.8	20.7	20.7
9/18/2023	8	20.4	20.5	20.0	20.0	19.9	19.9	20.7	20.6
9/18/2023	9	20.3	20.4	20.2	20.1	20.0	20.0	20.7	20.5
9/18/2023	10	20.3	20.4	20.4	20.1	20.0	20.0	20.7	20.5
9/18/2023	11	20.3	20.4	20.5	20.3	20.1	20.2	20.7	20.5
9/18/2023	12	20.3	20.5	20.8	20.5	20.3	20.4	20.7	20.5
9/18/2023	13	20.4	20.5	21.0	20.7	20.5	20.6	20.7	20.5
9/18/2023	14	20.4	20.5	21.2	20.9	20.7	20.8	20.7	20.6
9/18/2023	15	20.4	20.5	21.2	21.0	20.8	20.9	20.7	20.6
9/18/2023	16	20.4	20.5	21.2	21.1	21.0	21.0	20.7	20.6
9/18/2023	17	20.4	20.5	20.8	21.1	21.0	21.0	20.6	20.6
9/18/2023	18	20.4	20.4	20.1	20.8	20.9	20.8	20.6	20.6
9/18/2023	19	20.3	20.3	19.6	20.5	20.6	20.5	20.6	20.5
9/18/2023	20	20.3	20.3	19.1	20.0	20.2	20.1	20.6	20.5
9/18/2023	21	20.3	20.2	18.8	19.5	19.8	19.7	20.5	20.4
9/18/2023	22	20.2	20.2	18.5	19.1	19.4	19.2	20.5	20.3
9/18/2023	23	20.2	20.2	18.3	18.7	19.0	18.9	20.5	14.4
9/18/2023	24	20.1	20.1	18.2	18.4	18.7	18.5	20.5	14.6
9/19/2023	1	20.1	20.1	18.2	18.1	18.4	18.2	20.5	14.6
9/19/2023	2	20.1	20.0	18.2	17.8	18.1	18.0	20.5	13.4
9/19/2023	3	20.1	20.0	18.1	17.7	17.9	17.8	20.4	13.3
9/19/2023	4	20.0	20.0	18.1	17.6	17.8	17.7	20.4	15.4
9/19/2023	5	20.0	20.0	18.0	17.5	17.7	17.5	20.4	16.4
9/19/2023	6	20.0	19.9	18.0	17.5	17.7	17.5	20.4	19.4
9/19/2023	7	19.9	19.9	18.1	17.4	17.6	17.5	20.3	20.1
9/19/2023	8	19.9	19.9	18.1	17.4	17.6	17.4	20.3	20.0
9/19/2023	9	19.9	19.8	18.3	17.5	17.6	17.5	20.2	19.9
9/19/2023	10	19.8	19.7	18.5	17.7	17.6	17.5	20.2	19.9
9/19/2023	11	19.7	19.8	19.1	18.2	17.8	18.0	20.1	19.9
9/19/2023	12	19.7	19.8	19.9	18.3	18.0	18.3	20.1	19.9
9/19/2023	13	19.8	19.9	20.4	18.5	18.2	18.3	20.2	19.9
9/19/2023	14	19.8	19.9	20.9	19.1	18.7	18.9	20.2	20.0
9/19/2023	15	19.9	20.0	21.0	20.2	19.2	19.3	20.2	20.1
9/19/2023	16	19.9	20.0	20.8	20.0	19.7	19.7	20.2	20.1
9/19/2023	17	20.0	20.0	20.5	20.2	20.0	19.9	20.2	20.1
9/19/2023	18	20.0	20.0	20.0	20.2	20.2	20.0	20.3	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)
9/19/2023	19	19.9	19.9	19.5	20.1	20.1	20.0	20.3	20.1
9/19/2023	20	19.9	19.9	19.1	19.8	20.0	19.8	20.2	20.1
9/19/2023	21	19.9	19.9	18.7	19.4	19.7	19.5	20.2	20.0
9/19/2023	22	19.9	19.8	18.5	19.0	19.3	19.1	20.2	20.0
9/19/2023	23	19.8	19.8	18.3	18.7	18.9	18.7	20.2	14.7
9/19/2023	24	19.8	19.8	18.3	18.4	18.6	18.4	20.2	14.6
9/20/2023	1	19.8	19.8	18.3	18.2	18.4	18.2	20.2	15.1
9/20/2023	2	19.8	19.8	18.4	18.0	18.2	18.0	20.2	16.1
9/20/2023	3	19.8	19.7	18.4	17.9	18.1	17.9	20.1	15.9
9/20/2023	4	19.8	19.7	18.3	17.8	18.0	17.7	20.1	15.3
9/20/2023	5	19.7	19.7	18.3	17.8	18.0	17.7	20.1	15.6
9/20/2023	6	19.7	19.7	18.3	17.8	18.0	17.7	20.0	18.7
9/20/2023	7	19.7	19.6	18.2	17.7	17.9	17.7	20.0	19.8
9/20/2023	8	19.6	19.6	18.1	17.7	17.9	17.7	19.9	19.7
9/20/2023	9	19.6	19.5	18.1	17.7	17.8	17.6	19.9	19.7
9/20/2023	10	19.6	19.5	18.2	17.7	17.8	17.6	19.9	19.6
9/20/2023	11	19.5	19.5	18.3	17.7	17.8	17.7	19.8	19.6
9/20/2023	12	19.5	19.4	18.4	17.7	17.8	17.7	19.8	19.5
9/20/2023	13	19.4	19.4	18.5	17.8	17.8	17.7	19.8	19.5
9/20/2023	14	19.4	19.4	18.7	18.1	18.0	18.0	19.8	19.5
9/20/2023	15	19.4	19.5	19.1	18.3	18.1	18.2	19.8	19.5
9/20/2023	16	19.4	19.5	19.4	18.4	18.3	18.5	19.7	19.5
9/20/2023	17	19.4	19.4	19.5	18.5	18.4	18.4	19.7	19.5
9/20/2023	18	19.4	19.4	19.4	18.8	18.7	18.6	19.7	19.5
9/20/2023	19	19.4	19.4	19.1	18.8	18.9	18.7	19.7	19.5
9/20/2023	20	19.4	19.3	18.7	18.8	18.9	18.7	19.7	19.5
9/20/2023	21	19.4	19.3	18.3	18.7	18.8	18.7	19.7	19.5
9/20/2023	22	19.4	19.3	18.1	18.4	18.7	18.5	19.7	19.5
9/20/2023	23	19.3	19.2	17.8	18.2	18.4	18.2	19.7	14.7
9/20/2023	24	19.3	19.2	17.7	17.8	18.1	17.9	19.7	19.2
9/21/2023	1	19.3	19.2	17.6	17.6	17.9	17.7	19.7	19.3
9/21/2023	2	19.3	19.2	17.5	17.3	17.6	17.4	19.7	18.3
9/21/2023	3	19.3	19.1	17.4	17.1	17.4	17.2	19.7	19.3
9/21/2023	4	19.2	19.1	17.3	17.0	17.3	17.0	19.6	19.2
9/21/2023	5	19.2	19.1	17.3	16.9	17.2	16.9	19.6	19.1
9/21/2023	6	19.2	19.1	17.3	16.8	17.1	16.8	19.6	19.2
9/21/2023	7	19.1	19.0	17.2	16.7	17.0	16.7	19.5	19.2
9/21/2023	8	19.1	19.0	17.2	16.7	16.9	16.7	19.5	19.2
9/21/2023	9	19.1	19.0	17.5	17.1	16.9	16.8	19.5	19.1
9/21/2023	10	19.0	19.0	17.9	17.3	17.0	17.0	19.4	19.1
9/21/2023	11	19.0	19.0	18.5	17.5	17.1	17.2	19.4	19.1
9/21/2023	12	19.0	19.1	19.3	17.6	17.3	17.5	19.4	19.1
9/21/2023	13	19.1	19.1	20.1	18.0	17.6	17.8	19.4	19.2
9/21/2023	14	19.1	19.2	20.5	18.5	18.1	18.3	19.4	19.2
9/21/2023	15	19.2	19.2	20.7	19.1	18.7	18.9	19.5	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)
9/21/2023	16	19.2	19.2	20.7	19.5	19.3	19.4	19.5	19.3
9/21/2023	17	19.2	19.2	20.3	19.9	19.7	19.7	19.5	19.3
9/21/2023	18	19.2	19.2	19.7	20.2	20.0	19.9	19.5	19.3
9/21/2023	19	19.2	19.2	19.3	20.1	20.0	20.0	19.5	19.3
9/21/2023	20	19.2	19.2	18.9	19.8	19.8	19.8	19.5	19.3
9/21/2023	21	19.2	19.2	18.6	19.4	19.5	19.5	19.5	19.3
9/21/2023	22	19.2	19.2	18.4	19.1	19.2	19.2	19.4	19.3
9/21/2023	23	19.2	19.2	18.3	18.8	18.9	18.8	19.4	19.2
9/21/2023	24	19.2	19.2	18.2	18.5	18.6	18.5	19.4	19.1
9/22/2023	1	19.2	19.1	18.2	18.3	18.4	18.2	19.4	19.2
9/22/2023	2	19.1	19.1	18.2	18.1	18.2	18.1	19.4	19.1
9/22/2023	3	19.1	19.1	18.1	18.0	18.1	18.0	19.4	19.1
9/22/2023	4	19.1	19.1	18.2	17.9	18.0	17.9	19.3	19.2
9/22/2023	5	19.1	19.1	18.1	17.9	18.0	17.8	19.3	19.2
9/22/2023	6	19.1	19.1	18.1	17.9	17.9	17.8	19.3	19.2
9/22/2023	7	19.1	19.0	18.0	17.8	17.9	17.7	19.3	19.2
9/22/2023	8	19.1	19.0	18.0	17.8	17.9	17.7	19.3	19.2
9/22/2023	9	19.0	19.0	18.1	17.9	17.9	17.8	19.3	19.2
9/22/2023	10	19.0	19.1	18.4	18.0	17.9	17.9	19.3	19.2
9/22/2023	11	19.0	19.1	18.7	18.1	18.0	18.0	19.3	19.2
9/22/2023	12	19.0	19.1	19.2	18.4	18.2	18.3	19.3	19.2
9/22/2023	13	19.1	19.2	19.9	18.7	18.4	18.7	19.4	19.2
9/22/2023	14	19.1	19.2	20.5	19.0	18.7	19.0	19.4	19.3
9/22/2023	15	19.2	19.3	20.7	19.4	19.1	19.2	19.5	19.3
9/22/2023	16	19.2	19.3	20.9	19.9	19.6	19.7	19.5	19.4
9/22/2023	17	19.3	19.3	20.4	20.2	19.9	20.0	19.5	19.4
9/22/2023	18	19.3	19.3	19.7	20.2	20.1	20.0	19.6	19.4
9/22/2023	19	19.3	19.3	19.2	20.2	20.1	20.0	19.6	19.4
9/22/2023	20	19.3	19.3	18.6	19.9	20.0	19.9	19.6	19.4
9/22/2023	21	19.3	19.3	18.3	19.4	19.6	19.5	19.6	19.4
9/22/2023	22	19.2	19.2	18.1	18.9	19.2	19.1	19.5	19.3
9/22/2023	23	19.2	19.2	18.1	18.6	18.8	18.6	19.5	19.3
9/22/2023	24	19.2	19.2	18.0	18.2	18.4	18.2	19.5	19.3
9/23/2023	1	19.2	19.2	17.9	17.9	18.1	17.9	19.5	19.3
9/23/2023	2	19.2	19.1	17.8	17.7	17.9	17.7	19.4	19.2
9/23/2023	3	19.2	19.1	17.8	17.7	17.8	17.6	19.4	19.2
9/23/2023	4	19.1	19.1	17.8	17.6	17.7	17.5	19.4	19.2
9/23/2023	5	19.1	19.1	17.7	17.5	17.6	17.4	19.4	19.2
9/23/2023	6	19.1	19.0	17.7	17.4	17.5	17.3	19.4	19.2
9/23/2023	7	19.1	19.0	17.7	17.4	17.5	17.3	19.4	19.1
9/23/2023	8	19.0	19.0	17.7	17.3	17.4	17.3	19.4	19.1
9/23/2023	9	19.0	19.0	17.8	17.4	17.4	17.3	19.4	19.1
9/23/2023	10	19.0	19.0	18.1	17.6	17.5	17.4	19.4	19.1
9/23/2023	11	19.0	19.0	18.5	17.8	17.6	17.7	19.4	19.1
9/23/2023	12	19.0	19.1	19.2	18.1	17.8	18.0	19.4	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)
9/23/2023	13	19.0	19.1	19.6	18.2	18.0	18.1	19.4	19.2
9/23/2023	14	19.1	19.1	19.8	18.6	18.3	18.4	19.4	19.2
9/23/2023	15	19.1	19.2	19.8	19.1	18.8	18.9	19.4	19.2
9/23/2023	16	19.1	19.2	19.8	19.4	19.1	19.2	19.4	19.2
9/23/2023	17	19.1	19.2	19.6	19.6	19.4	19.4	19.4	19.2
9/23/2023	18	19.1	19.2	19.3	19.6	19.5	19.5	19.4	19.2
9/23/2023	19	19.1	19.1	19.0	19.5	19.4	19.3	19.4	19.2
9/23/2023	20	19.1	19.1	18.6	19.3	19.3	19.2	19.4	19.2
9/23/2023	21	19.1	19.1	18.2	19.0	19.1	19.0	19.3	19.2
9/23/2023	22	19.1	19.1	18.0	18.7	18.8	18.7	19.3	19.2
9/23/2023	23	19.1	19.0	17.9	18.3	18.5	18.3	19.3	19.0
9/23/2023	24	19.0	19.0	17.9	18.0	18.2	18.0	19.2	18.9
9/24/2023	1	19.0	19.0	17.8	17.8	17.9	17.7	19.2	19.0
9/24/2023	2	19.0	18.9	17.8	17.6	17.7	17.5	19.2	18.9
9/24/2023	3	18.9	18.9	17.7	17.5	17.6	17.4	19.2	18.9
9/24/2023	4	18.9	18.9	17.7	17.5	17.6	17.4	19.1	18.9
9/24/2023	5	18.9	18.8	17.7	17.4	17.5	17.3	19.1	18.9
9/24/2023	6	18.8	18.8	17.6	17.3	17.4	17.2	19.1	18.7
9/24/2023	7	18.8	18.7	17.5	17.2	17.3	17.1	19.1	18.7
9/24/2023	8	18.8	18.7	17.4	17.2	17.3	17.1	19.1	18.8
9/24/2023	9	18.7	18.7	17.5	17.3	17.2	17.1	19.1	18.8
9/24/2023	10	18.7	18.7	17.9	17.5	17.3	17.3	19.0	18.7
9/24/2023	11	18.7	18.7	18.5	17.7	17.4	17.5	19.0	18.8
9/24/2023	12	18.7	18.7	19.1	17.8	17.5	17.7	19.0	18.8
9/24/2023	13	18.7	18.8	19.5	18.0	17.7	17.8	19.0	18.9
9/24/2023	14	18.7	18.8	19.6	18.5	18.1	18.2	19.0	18.9
9/24/2023	15	18.7	18.8	19.7	18.9	18.6	18.7	19.0	18.9
9/24/2023	16	18.8	18.8	19.4	19.2	18.9	18.9	19.0	18.9
9/24/2023	17	18.8	18.8	19.1	19.2	19.1	19.0	19.0	18.9
9/24/2023	18	18.8	18.8	18.6	19.2	19.1	19.1	19.0	18.9
9/24/2023	19	18.8	18.8	18.3	19.0	19.0	19.0	19.0	18.9
9/24/2023	20	18.8	18.8	18.2	18.7	18.8	18.7	19.0	18.9
9/24/2023	21	18.7	18.8	18.1	18.4	18.6	18.5	19.0	18.8
9/24/2023	22	18.7	18.7	18.1	18.3	18.4	18.3	19.0	18.8
9/24/2023	23	18.7	18.7	18.0	18.1	18.2	18.1	19.0	18.8
9/24/2023	24	18.7	18.7	18.0	17.9	18.0	17.9	19.0	18.8
9/25/2023	1	18.7	18.7	18.0	17.8	17.9	17.8	19.0	18.8
9/25/2023	2	18.7	18.7	18.0	17.8	17.9	17.7	19.0	18.8
9/25/2023	3	18.7	18.7	17.9	17.7	17.8	17.7	19.0	18.7
9/25/2023	4	18.7	18.7	17.9	17.6	17.8	17.7	19.0	18.6
9/25/2023	5	18.7	18.7	17.9	17.6	17.8	17.6	19.0	18.7
9/25/2023	6	18.6	18.6	17.8	17.6	17.7	17.6	19.0	18.7
9/25/2023	7	18.6	18.6	17.8	17.6	17.7	17.6	19.0	18.7
9/25/2023	8	18.6	18.6	17.8	17.6	17.7	17.5	19.0	18.7
9/25/2023	9	18.6	18.6	17.8	17.6	17.7	17.6	19.0	18.7



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)
9/25/2023	10	18.6	18.6	17.9	17.6	17.7	17.6	18.9	18.7
9/25/2023	11	18.6	18.6	18.0	17.6	17.7	17.6	18.9	18.7
9/25/2023	12	18.6	18.6	18.2	17.8	17.7	17.7	18.9	18.7
9/25/2023	13	18.6	18.7	18.5	18.0	17.9	17.9	18.9	18.7
9/25/2023	14	18.6	18.6	18.6	18.0	18.0	17.9	18.9	18.7
9/25/2023	15	18.6	18.7	18.8	18.2	18.1	18.1	18.9	18.7
9/25/2023	16	18.6	18.7	18.8	18.4	18.3	18.3	18.9	18.7
9/25/2023	17	18.6	18.7	18.7	18.5	18.4	18.4	18.9	18.7
9/25/2023	18	18.6	18.6	18.6	18.6	18.5	18.5	18.9	18.7
9/25/2023	19	18.6	18.6	18.4	18.6	18.6	18.5	18.9	18.7
9/25/2023	20	18.6	18.6	18.2	18.5	18.5	18.5	18.9	18.7
9/25/2023	21	18.6	18.6	18.1	18.4	18.4	18.3	18.9	18.7
9/25/2023	22	18.6	18.6	18.0	18.2	18.3	18.2	18.9	18.7
9/25/2023	23	18.6	18.6	17.8	18.1	18.1	18.0	18.9	18.7
9/25/2023	24	18.6	18.6	17.7	17.9	18.0	17.8	18.9	18.7
9/26/2023	1	18.6	18.5	17.7	17.7	17.8	17.7	18.9	18.6
9/26/2023	2	18.6	18.5	17.7	17.7	17.7	17.6	18.9	18.6
9/26/2023	3	18.5	18.5	17.7	17.6	17.6	17.5	18.9	18.7
9/26/2023	4	18.5	18.5	17.7	17.5	17.6	17.5	18.8	18.6
9/26/2023	5	18.5	18.5	17.7	17.5	17.5	17.4	18.8	18.6
9/26/2023	6	18.5	18.5	17.7	17.4	17.5	17.3	18.8	18.6
9/26/2023	7	18.5	18.5	17.7	17.4	17.5	17.3	18.8	18.6
9/26/2023	8	18.4	18.4	17.6	17.4	17.5	17.3	18.8	18.6
9/26/2023	9	18.4	18.4	17.6	17.5	17.5	17.3	18.8	18.5
9/26/2023	10	18.4	18.4	17.8	17.6	17.5	17.5	18.8	18.5
9/26/2023	11	18.4	18.5	18.2	17.7	17.6	17.7	18.8	18.6
9/26/2023	12	18.5	18.6	18.7	17.7	17.6	17.7	18.8	18.6
9/26/2023	13	18.5	18.6	19.1	18.0	18.2	18.1	18.8	18.6
9/26/2023	14	18.5	18.6	19.4	18.4	18.5	18.5	18.9	18.7
9/26/2023	15	18.6	18.6	19.5	18.6	18.6	18.6	18.9	18.7
9/26/2023	16	18.6	18.6	19.5	18.8	18.7	18.8	18.9	18.7
9/26/2023	17	18.6	18.6	19.3	19.1	18.8	18.9	18.9	18.8
9/26/2023	18	18.6	18.6	18.9	19.2	18.9	18.9	18.9	18.8
9/26/2023	19	18.6	18.6	18.6	19.2	18.9	18.9	18.9	18.8
9/26/2023	20	18.6	18.6	18.2	19.0	18.8	18.8	18.9	18.8
9/26/2023	21	18.6	18.6	17.8	18.6	18.7	18.6	18.9	18.7
9/26/2023	22	18.6	18.6	17.7	18.3	18.6	18.4	18.9	18.7
9/26/2023	23	18.6	18.5	17.5	18.0	18.4	18.2	18.9	18.6
9/26/2023	24	18.6	18.5	17.3	17.6	18.3	18.0	18.9	18.6
9/27/2023	1	18.5	18.5	17.3	17.4	18.2	17.8	18.9	18.5
9/27/2023	2	18.5	18.4	17.2	17.2	18.1	17.7	18.9	18.5
9/27/2023	3	18.5	18.4	17.2	17.1	18.0	17.6	18.9	18.6
9/27/2023	4	18.5	18.4	17.2	17.0	17.9	17.5	18.8	18.6
9/27/2023	5	18.4	18.4	17.2	16.9	17.9	17.5	18.8	18.5
9/27/2023	6	18.4	18.4	17.2	16.9	17.8	17.4	18.8	18.5

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)
9/27/2023	7	18.4	18.3	17.2	16.9	17.8	17.4	18.8	18.5
9/27/2023	8	18.3	18.3	17.1	16.9	17.8	17.4	18.7	18.4
9/27/2023	9	18.3	18.3	17.3	17.0	17.8	17.4	18.7	18.4
9/27/2023	10	18.3	18.3	17.3	16.9	17.8	17.4	18.7	18.4
9/27/2023	11	18.3	18.3	17.4	16.9	17.8	17.4	18.7	18.4
9/27/2023	12	18.3	18.3	17.7	17.1	17.9	17.5	18.7	18.4
9/27/2023	13	18.3	18.4	18.0	17.3	17.9	17.7	18.7	18.4
9/27/2023	14	18.3	18.4	18.4	17.5	18.0	17.9	18.7	18.5
9/27/2023	15	18.3	18.4	18.7	17.7	18.1	18.0	18.7	18.5
9/27/2023	16	18.4	18.4	18.8	17.9	18.2	18.0	18.6	18.5
9/27/2023	17	18.4	18.4	18.7	18.1	18.3	18.2	18.6	18.5
9/27/2023	18	18.4	18.4	18.3	18.3	18.3	18.2	18.6	18.5
9/27/2023	19	18.4	18.3	17.9	18.2	18.3	18.2	18.6	18.5
9/27/2023	20	18.4	18.3	17.4	18.0	18.3	18.1	18.6	18.5
9/27/2023	21	18.3	18.3	17.2	17.8	18.2	18.0	18.6	18.4
9/27/2023	22	18.3	18.2	17.1	17.6	18.1	17.8	18.6	18.4
9/27/2023	23	18.3	18.2	17.1	17.3	18.0	17.7	18.6	18.4
9/27/2023	24	18.2	18.2	17.1	17.0	17.9	17.5	18.6	18.3
9/28/2023	1	18.2	18.2	17.1	16.9	17.7	17.3	18.6	18.3
9/28/2023	2	18.2	18.1	17.0	16.7	17.6	17.2	18.5	18.3
9/28/2023	3	18.1	18.1	16.9	16.7	17.7	17.2	18.5	18.2
9/28/2023	4	18.1	18.1	16.8	16.7	17.7	17.2	18.5	18.2
9/28/2023	5	18.1	18.0	16.8	16.6	17.6	17.1	18.5	18.2
9/28/2023	6	18.1	18.0	16.7	16.5	17.6	17.0	18.4	18.2
9/28/2023	7	18.0	17.9	16.7	16.4	17.4	17.0	18.4	18.1
9/28/2023	8	18.0	17.9	16.7	16.4	17.4	17.0	18.4	18.1
9/28/2023	9	18.0	18.0	16.9	16.6	17.5	17.1	18.4	18.1
9/28/2023	10	18.0	18.0	17.2	16.7	17.5	17.2	18.4	18.1
9/28/2023	11	18.0	18.0	17.7	16.8	17.6	17.3	18.4	18.1
9/28/2023	12	18.0	18.0	18.2	17.1	17.7	17.5	18.4	18.1
9/28/2023	13	18.0	18.1	18.9	17.3	17.9	17.8	18.4	18.2
9/28/2023	14	18.1	18.1	19.0	17.7	18.0	17.9	18.4	18.2
9/28/2023	15	18.1	18.1	19.1	18.2	18.2	18.1	18.3	18.2
9/28/2023	16	18.1	18.1	18.9	18.4	18.3	18.3	18.3	18.2
9/28/2023	17	18.1	18.1	18.6	18.6	18.3	18.3	18.3	18.2
9/28/2023	18	18.1	18.1	18.1	18.6	18.3	18.2	18.3	18.2
9/28/2023	19	18.1	18.0	17.6	18.4	18.3	18.2	18.4	18.2
9/28/2023	20	18.1	18.0	17.0	18.1	18.1	18.0	18.4	18.2
9/28/2023	21	18.1	18.0	16.7	17.6	18.0	17.8	18.4	18.2
9/28/2023	22	18.0	18.0	16.5	17.2	17.8	17.6	18.4	18.1
9/28/2023	23	18.0	17.9	16.5	16.8	17.7	17.5	18.4	18.1
9/28/2023	24	18.0	17.9	16.5	16.5	17.5	17.3	18.3	18.0
9/29/2023	1	18.0	17.8	16.4	16.2	17.4	17.2	18.3	18.0
9/29/2023	2	17.9	17.8	16.3	16.1	17.3	17.1	18.3	18.0
9/29/2023	3	17.9	17.7	16.2	16.0	17.3	17.0	18.2	17.9

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)
9/29/2023	4	17.8	17.7	16.1	15.9	17.2	16.9	18.2	17.9
9/29/2023	5	17.8	17.7	16.0	15.8	17.2	16.9	18.2	17.8
9/29/2023	6	17.8	17.6	15.9	15.7	17.1	16.8	18.1	17.8
9/29/2023	7	17.7	17.6	15.9	15.6	17.0	16.7	18.1	17.8
9/29/2023	8	17.7	17.6	15.8	15.6	17.0	16.7	18.1	17.8
9/29/2023	9	17.7	17.5	16.0	15.7	17.0	16.7	18.1	17.7
9/29/2023	10	17.6	17.5	16.3	15.8	17.0	16.8	18.1	17.7
9/29/2023	11	17.6	17.6	16.9	15.9	17.0	16.9	18.1	17.7
9/29/2023	12	17.6	17.6	17.5	16.0	17.1	17.0	18.1	17.7
9/29/2023	13	17.6	17.6	18.2	16.3	17.2	17.1	18.1	17.7
9/29/2023	14	17.7	17.7	18.6	16.7	17.3	17.3	18.1	17.8
9/29/2023	15	17.7	17.7	18.7	17.3	17.6	17.5	18.1	17.8
9/29/2023	16	17.7	17.7	18.5	17.7	17.7	17.7	18.1	17.9
9/29/2023	17	17.7	17.7	18.2	18.1	17.9	17.9	18.1	17.9
9/29/2023	18	17.8	17.7	17.7	18.2	17.9	17.9	18.1	17.9
9/29/2023	19	17.8	17.7	17.3	18.1	17.9	17.8	18.1	17.9
9/29/2023	20	17.8	17.7	16.9	17.8	17.8	17.7	18.1	17.9
9/29/2023	21	17.7	17.7	16.6	17.4	17.7	17.6	18.1	17.9
9/29/2023	22	17.7	17.6	16.3	17.0	17.6	17.4	18.1	17.8
9/29/2023	23	17.7	17.6	16.2	16.6	17.5	17.2	18.1	17.8
9/29/2023	24	17.7	17.5	16.0	16.3	17.3	17.0	18.1	17.8
9/30/2023	1	17.7	17.5	15.9	16.0	17.2	16.9	18.0	17.7
9/30/2023	2	17.6	17.5	15.8	15.8	17.1	16.8	18.0	17.7
9/30/2023	3	17.6	17.4	15.7	15.7	17.0	16.7	18.0	17.7
9/30/2023	4	17.6	17.4	15.7	15.5	16.9	16.6	17.9	17.7
9/30/2023	5	17.6	17.4	15.6	15.4	16.8	16.5	17.9	17.6
9/30/2023	6	17.5	17.3	15.5	15.3	16.8	16.4	17.8	17.6
9/30/2023	7	17.5	17.3	15.5	15.2	16.7	16.4	17.8	17.6
9/30/2023	8	17.5	17.3	15.5	15.1	16.7	16.3	17.8	17.5
9/30/2023	9	17.4	17.3	15.7	15.3	16.7	16.3	17.8	17.5
9/30/2023	10	17.4	17.3	16.1	15.4	16.7	16.5	17.8	17.4
9/30/2023	11	17.4	17.3	16.7	15.5	16.7	16.6	17.8	17.4
9/30/2023	12	17.4	17.3	17.4	15.6	16.8	16.7	17.8	17.5
9/30/2023	13	17.4	17.4	18.2	16.0	17.0	16.9	17.8	17.5
9/30/2023	14	17.4	17.4	18.7	16.6	17.2	17.2	17.8	17.6
9/30/2023	15	17.5	17.5	19.0	17.2	17.5	17.5	17.8	17.6
9/30/2023	16	17.6	17.6	18.9	17.8	17.7	17.7	17.8	17.7
9/30/2023	17	17.6	17.6	18.6	18.3	17.8	17.8	17.8	17.7
9/30/2023	18	17.6	17.5	18.1	18.5	17.9	17.9	17.8	17.7
9/30/2023	19	17.6	17.5	17.5	18.4	17.8	17.9	17.8	17.7
9/30/2023	20	17.5	17.5	17.1	18.1	17.8	17.7	17.8	17.7
9/30/2023	21	17.5	17.4	16.7	17.7	17.7	17.6	17.8	17.6
9/30/2023	22	17.5	17.4	16.5	17.3	17.5	17.4	17.8	17.6
9/30/2023	23	17.5	17.4	16.3	16.9	17.4	17.2	17.8	17.6
9/30/2023	24	17.5	17.4	16.2	16.6	17.3	17.1	17.8	17.6