

Kate Taylor

From: Scott Hopkins
Sent: Monday, August 19, 2024 3:19 PM
To: 'jody.walters@noaa.gov'; 'hugh_anthony@nps.gov'; 'paul.willard@usda.gov'; 'RD_Nelle@fws.gov'; 'travis.maitland@dfw.wa.gov'; Scott Hopkins; 'blod@yakamafishnsn.gov'; 'bret.nine@colvilletribes.com'; 'justin.yeager@noaa.gov'; 'ashley_rawhouser@nps.gov'; 'kari.grover@usda.gov'; 'stuart_fety@fws.gov'; 'ana.cerro@usda.gov'; 'CHBR461@ECY.WA.GOV'; 'Leslie.King@dfw.wa.gov'; 'okeefe@americanwhitewater.org'; 'wfarris@cityofchelan.us'; 'info@mansonparks.com'; 'Fisheries@ctuir.org'; 'philiprarchibald@gmail.com'; 'damon.roberts@ecy.wa.gov'; Sara Peck
Cc: Kate Taylor; Meaghan Connell; Laura Clark
Subject: 2024 Chelan River Temperature Data - July Reports
Attachments: 2024 Chelan River Daily Average Temperature Data July Report.pdf; 2024 Chelan River Hourly Temperature Data July Report.pdf
Categories: .Post Filing

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
(509)661-4763

Re: Lake Chelan Hydroelectric Project No. 637 (Project)
Appendix D 401 Water Quality Certification Condition V.C.i)
Water Temperature Data Reports: July 2024

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

Water temperature monitoring data for July 2024 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 twenty erroneous datapoints removed from the tailrace logger. These points were off more than 3.0 degrees from the nearest temperature logger. These erroneous points occurred on July 20, 23, 29, 30, and 31, and are represented by a “NA”. The remaining data reported represents 99.7% of the collected data after removal of these erroneous points.

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)
7/1/2024	20.2	20.5	20.4	20.6	20.5	20.6	20.6	20.4
7/2/2024	20.3	20.6	20.6	20.7	20.6	20.7	20.7	20.4
7/3/2024	20.4	20.6	20.7	20.8	20.7	20.8	20.8	20.6
7/4/2024	20.5	20.8	21.2	21.3	21.3	21.4	21.0	20.8
7/5/2024	20.3	20.5	21.3	21.7	21.6	21.7	21.0	20.8
7/6/2024	20.3	20.5	21.2	21.5	21.5	21.6	21.2	21.0
7/7/2024	20.3	20.5	21.2	21.5	21.5	21.5	21.5	21.3
7/8/2024	20.1	20.3	21.2	21.6	21.6	21.6	21.9	21.6
7/9/2024	20.3	20.5	21.4	21.8	21.8	21.9	22.4	22.3
7/10/2024	20.9	21.2	21.3	21.6	21.5	21.6	23.2	23.0
7/11/2024	23.7	24.0	23.5	23.3	23.3	23.3	24.2	23.9
7/12/2024	23.5	23.7	24.0	24.0	24.0	24.0	24.2	23.8
7/13/2024	21.0	21.2	22.2	22.8	22.8	22.9	23.4	23.0
7/14/2024	22.1	22.4	22.5	22.8	22.7	22.8	24.0	23.8
7/15/2024	23.8	24.1	23.6	23.5	23.5	23.5	24.6	24.1
7/16/2024	23.9	24.1	24.0	23.9	23.7	23.8	24.6	24.3
7/17/2024	20.6	20.7	21.6	22.4	22.7	22.6	23.0	22.8
7/18/2024	20.5	20.7	22.0	22.5	22.8	22.9	23.3	23.1
7/19/2024	22.5	22.8	22.8	22.9	23.6	23.6	24.2	24.0
7/20/2024	23.4	23.7	23.6	23.7	24.2	24.3	24.9	24.6
7/21/2024	21.6	21.7	22.6	23.2	23.8	23.7	24.4	24.1
7/22/2024	21.5	21.7	22.1	22.5	23.2	23.2	23.9	23.4
7/23/2024	23.9	24.1	23.0	22.7	23.5	23.6	24.5	24.3
7/24/2024	23.5	23.6	23.3	23.4	23.7	23.7	24.2	24.0
7/25/2024	23.3	23.4	22.4	22.2	22.8	22.8	23.6	23.4
7/26/2024	22.9	22.9	22.3	22.0	22.5	22.5	23.2	22.9
7/27/2024	22.3	22.4	22.5	22.5	22.5	22.6	22.8	22.6
7/28/2024	22.2	22.4	22.1	22.2	22.2	22.2	22.6	22.5
7/29/2024	22.3	22.4	21.8	21.8	22.2	22.1	22.6	22.4
7/30/2024	22.2	22.4	22.6	22.7	22.5	22.5	22.6	22.4
7/31/2024	22.6	22.7	22.9	23.0	22.7	22.9	23.0	22.7

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/1/2024	1	19.9	20.1	18.6	19.7	19.8	19.8	20.2	19.7
7/1/2024	2	19.9	20.2	18.6	19.2	19.4	19.3	20.1	19.7
7/1/2024	3	20.0	20.2	18.5	18.9	19.0	19.0	20.1	19.7
7/1/2024	4	20.0	20.2	18.5	18.7	18.8	18.7	20.0	19.7
7/1/2024	5	20.1	20.2	18.5	18.6	18.6	18.6	20.0	19.7
7/1/2024	6	20.1	20.3	18.5	18.5	18.5	18.4	19.9	19.7
7/1/2024	7	20.2	20.4	18.6	18.4	18.4	18.4	20.5	20.6
7/1/2024	8	20.2	20.4	18.8	18.5	18.4	18.4	20.7	20.5
7/1/2024	9	20.1	20.3	19.2	18.6	18.5	18.6	20.7	20.3
7/1/2024	10	20.0	20.4	20.0	19.1	18.7	19.0	20.7	20.3
7/1/2024	11	20.0	20.4	21.1	19.4	19.1	19.6	20.7	20.3
7/1/2024	12	20.1	20.4	22.0	20.0	19.7	20.1	20.7	20.3
7/1/2024	13	20.1	20.5	22.8	20.8	20.4	20.8	20.7	20.5
7/1/2024	14	20.2	20.6	23.4	21.7	21.2	21.5	20.7	20.6
7/1/2024	15	20.4	20.8	23.5	22.5	22.1	22.4	20.7	20.7
7/1/2024	16	20.5	20.9	23.6	23.0	22.6	22.8	20.7	20.7
7/1/2024	17	20.6	21.0	23.3	23.3	23.1	23.4	20.8	20.8
7/1/2024	18	20.6	20.9	22.7	23.4	23.3	23.5	20.8	20.9
7/1/2024	19	20.6	20.9	21.8	23.3	23.2	23.3	20.8	20.9
7/1/2024	20	20.6	20.8	20.9	22.7	22.8	22.9	20.9	20.8
7/1/2024	21	20.5	20.7	20.2	22.3	22.3	22.4	20.9	20.8
7/1/2024	22	20.5	20.7	19.6	21.7	21.8	21.9	20.9	20.7
7/1/2024	23	20.4	20.6	19.2	21.0	21.2	21.2	20.8	20.7
7/1/2024	24	20.4	20.5	19.0	20.3	20.5	20.6	20.8	20.1
7/2/2024	1	20.3	20.5	18.9	19.8	19.9	19.9	20.7	20.2
7/2/2024	2	20.3	20.5	18.8	19.3	19.5	19.4	20.7	20.3
7/2/2024	3	20.3	20.4	18.7	19.0	19.1	19.0	20.6	20.3
7/2/2024	4	20.3	20.4	18.6	18.7	18.8	18.7	20.6	19.9
7/2/2024	5	20.3	20.4	18.5	18.6	18.7	18.5	20.5	18.7
7/2/2024	6	20.2	20.4	18.4	18.4	18.5	18.4	20.5	19.7
7/2/2024	7	20.2	20.4	18.6	18.4	18.4	18.3	20.4	20.4
7/2/2024	8	20.2	20.4	18.9	18.6	18.4	18.4	20.4	20.4
7/2/2024	9	20.1	20.4	19.6	18.7	18.5	18.7	20.4	20.3
7/2/2024	10	20.0	20.3	20.2	19.0	18.7	19.0	20.4	20.3
7/2/2024	11	20.0	20.3	21.1	19.4	19.1	19.5	20.5	20.3
7/2/2024	12	20.0	20.4	22.1	20.2	19.8	20.2	20.5	20.3
7/2/2024	13	20.1	20.5	22.9	21.1	20.7	21.1	20.6	20.5
7/2/2024	14	20.2	20.7	23.4	22.0	21.5	21.9	20.7	20.6
7/2/2024	15	20.3	20.7	23.7	22.7	22.3	22.7	20.8	20.7
7/2/2024	16	20.4	20.8	23.7	23.3	22.9	23.3	20.9	20.8
7/2/2024	17	20.6	20.9	23.3	23.5	23.3	23.6	21.0	20.9
7/2/2024	18	20.6	20.9	22.8	23.5	23.4	23.6	21.1	21.0
7/2/2024	19	20.7	21.0	22.1	23.2	23.2	23.3	21.1	21.0
7/2/2024	20	20.7	21.0	21.2	22.8	22.8	22.8	21.1	21.0
7/2/2024	21	20.7	20.9	20.3	22.4	22.4	22.4	21.1	21.0

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/2/2024	22	20.7	20.8	19.7	21.8	21.9	21.9	21.0	20.9
7/2/2024	23	20.6	20.7	19.3	21.1	21.3	21.3	21.0	20.8
7/2/2024	24	20.5	20.7	19.1	20.4	20.6	20.6	20.9	20.7
7/3/2024	1	20.5	20.6	18.9	19.8	20.0	20.0	20.9	20.7
7/3/2024	2	20.4	20.6	18.7	19.3	19.5	19.4	20.8	20.6
7/3/2024	3	20.4	20.5	18.6	19.1	19.2	19.1	20.8	20.6
7/3/2024	4	20.4	20.5	18.5	18.8	18.9	18.8	20.7	20.4
7/3/2024	5	20.3	20.5	18.4	18.6	18.7	18.6	20.7	20.4
7/3/2024	6	20.3	20.4	18.4	18.5	18.5	18.4	20.7	20.4
7/3/2024	7	20.3	20.4	18.4	18.3	18.4	18.3	20.6	20.5
7/3/2024	8	20.2	20.4	18.7	18.5	18.3	18.4	20.6	20.4
7/3/2024	9	20.1	20.4	19.2	18.7	18.4	18.6	20.6	20.3
7/3/2024	10	20.1	20.3	20.0	18.8	18.6	18.9	20.5	20.3
7/3/2024	11	20.1	20.3	21.0	19.3	19.0	19.3	20.5	20.3
7/3/2024	12	20.1	20.4	22.1	20.1	19.7	20.0	20.6	20.4
7/3/2024	13	20.1	20.4	22.9	21.0	20.6	21.0	20.7	20.4
7/3/2024	14	20.2	20.6	23.5	22.0	21.6	22.7	20.7	20.7
7/3/2024	15	20.3	20.7	23.8	22.8	22.4	22.7	20.8	20.6
7/3/2024	16	20.4	20.7	23.8	23.5	23.1	23.4	20.9	20.7
7/3/2024	17	20.5	20.8	23.6	23.7	23.5	23.8	21.0	20.8
7/3/2024	18	20.6	20.9	23.2	23.8	23.7	23.9	21.1	20.9
7/3/2024	19	20.7	21.0	22.5	23.6	23.6	23.7	21.2	20.9
7/3/2024	20	20.7	20.9	21.7	23.1	23.2	23.2	21.1	20.9
7/3/2024	21	20.6	20.8	20.9	22.7	22.8	22.7	21.1	20.9
7/3/2024	22	20.7	20.8	20.3	22.3	22.4	22.3	21.1	20.9
7/3/2024	23	20.7	20.8	19.8	21.7	21.8	21.8	21.0	20.9
7/3/2024	24	20.7	20.8	19.5	21.0	21.2	21.2	21.0	20.9
7/4/2024	1	20.6	20.7	19.3	20.5	20.7	20.6	21.0	20.8
7/4/2024	2	20.6	20.7	19.1	19.9	20.1	20.1	20.9	20.7
7/4/2024	3	20.5	20.6	19.1	19.5	19.7	19.6	20.9	20.7
7/4/2024	4	20.5	20.6	19.0	19.2	19.4	19.3	20.9	20.7
7/4/2024	5	20.4	20.5	19.0	19.0	19.2	19.0	20.8	20.6
7/4/2024	6	20.4	20.5	19.0	18.9	19.0	18.9	20.8	20.5
7/4/2024	7	20.3	20.5	19.0	18.9	18.9	18.8	20.8	20.5
7/4/2024	8	20.3	20.5	19.3	19.2	19.0	18.9	20.8	20.4
7/4/2024	9	20.2	20.5	19.8	19.3	19.1	19.2	20.7	20.4
7/4/2024	10	20.2	20.5	20.6	19.5	19.3	19.5	20.7	20.5
7/4/2024	11	20.3	20.6	21.5	19.9	19.7	19.9	20.7	20.5
7/4/2024	12	20.3	20.7	22.4	20.7	20.3	20.6	20.8	20.6
7/4/2024	13	20.4	20.8	23.2	21.5	21.2	21.5	20.9	20.7
7/4/2024	14	20.5	20.9	23.8	22.5	22.0	22.4	20.9	20.8
7/4/2024	15	20.6	21.0	24.1	23.2	22.8	23.2	21.0	20.9
7/4/2024	16	20.7	21.0	24.3	23.8	23.4	23.8	21.1	21.0
7/4/2024	17	20.7	21.1	24.1	23.9	23.9	24.1	21.2	21.1
7/4/2024	18	20.8	21.1	23.6	24.2	24.1	24.3	21.3	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)
7/4/2024	19	20.8	21.1	23.0	24.1	24.0	24.2	21.3	21.1
7/4/2024	20	20.8	21.0	22.3	23.8	23.8	23.8	21.3	21.1
7/4/2024	21	20.8	21.0	21.4	23.4	23.4	23.4	21.3	21.1
7/4/2024	22	20.8	20.9	20.8	22.9	23.0	23.0	21.2	21.0
7/4/2024	23	20.8	20.9	20.4	22.3	22.5	22.5	21.2	21.0
7/4/2024	24	20.8	20.9	20.1	21.6	21.8	21.8	21.1	21.0
7/5/2024	1	20.7	20.9	19.8	21.0	21.2	21.2	21.1	20.9
7/5/2024	2	20.7	20.8	19.7	20.6	20.7	20.7	21.0	20.8
7/5/2024	3	20.6	20.7	19.6	20.2	20.3	20.3	20.9	20.7
7/5/2024	4	20.5	20.6	19.5	19.9	20.0	19.9	20.9	20.7
7/5/2024	5	20.4	20.5	19.3	19.7	19.8	19.7	20.9	20.6
7/5/2024	6	20.4	20.5	19.2	19.5	19.6	19.5	20.8	20.5
7/5/2024	7	20.3	20.4	19.2	19.4	19.5	19.4	20.8	20.4
7/5/2024	8	20.2	20.4	19.5	19.5	19.4	19.4	20.7	20.3
7/5/2024	9	20.1	20.3	20.0	19.7	19.5	19.6	20.7	20.3
7/5/2024	10	20.1	20.4	20.7	19.8	19.7	19.9	20.7	20.4
7/5/2024	11	20.1	20.4	21.6	20.3	20.0	20.3	20.6	20.4
7/5/2024	12	20.1	20.5	22.6	20.9	20.7	20.9	20.7	20.5
7/5/2024	13	20.0	20.4	23.4	21.8	21.5	21.8	20.8	20.7
7/5/2024	14	20.1	20.5	24.0	22.7	22.3	22.7	20.9	20.8
7/5/2024	15	20.1	20.5	24.4	23.5	23.1	23.5	21.0	20.9
7/5/2024	16	20.2	20.6	24.5	24.1	23.8	24.1	21.1	21.0
7/5/2024	17	20.3	20.6	24.2	24.3	24.2	24.5	21.2	21.1
7/5/2024	18	20.3	20.7	23.7	24.6	24.5	24.6	21.3	21.1
7/5/2024	19	20.3	20.7	23.0	24.4	24.4	24.5	21.4	21.1
7/5/2024	20	20.4	20.5	22.2	24.1	24.1	24.1	21.4	21.1
7/5/2024	21	20.3	20.5	21.4	23.6	23.7	23.7	21.3	21.0
7/5/2024	22	20.3	20.6	20.6	23.0	23.2	23.2	21.2	21.0
7/5/2024	23	20.2	20.3	20.2	22.1	22.3	22.4	21.2	20.9
7/5/2024	24	20.2	20.3	20.0	21.3	21.5	21.5	21.1	20.9
7/6/2024	1	20.0	20.1	19.8	20.7	20.9	20.8	21.0	20.8
7/6/2024	2	19.9	19.9	19.6	20.2	20.4	20.3	20.9	20.7
7/6/2024	3	19.8	20.0	19.5	20.0	20.1	20.0	20.8	20.6
7/6/2024	4	20.0	20.1	19.3	19.7	19.8	19.7	20.9	20.7
7/6/2024	5	20.2	20.3	19.1	19.5	19.6	19.5	20.9	20.8
7/6/2024	6	20.3	20.5	19.0	19.4	19.4	19.3	20.9	20.7
7/6/2024	7	20.4	20.6	19.1	19.2	19.3	19.2	21.0	20.7
7/6/2024	8	20.5	20.7	19.6	19.3	19.2	19.2	21.0	20.7
7/6/2024	9	20.6	20.8	20.2	19.5	19.3	19.4	21.0	20.8
7/6/2024	10	20.6	20.9	20.9	19.9	19.6	19.8	21.1	20.9
7/6/2024	11	20.7	21.0	21.8	20.5	20.2	20.4	21.1	20.9
7/6/2024	12	20.8	21.1	22.6	21.3	21.0	21.2	21.2	21.0
7/6/2024	13	20.8	21.1	23.4	22.3	21.9	22.2	21.3	21.2
7/6/2024	14	20.8	21.2	23.9	23.1	22.8	23.0	21.3	21.3
7/6/2024	15	20.9	21.2	24.1	23.9	23.5	23.8	21.4	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)
7/6/2024	16	20.9	21.2	24.0	24.3	24.0	24.3	21.5	21.5
7/6/2024	17	20.8	21.1	23.7	24.4	24.3	24.6	21.6	21.5
7/6/2024	18	20.5	20.7	23.3	24.3	24.3	24.5	21.6	21.4
7/6/2024	19	20.5	20.6	22.7	23.9	24.0	24.1	21.6	21.4
7/6/2024	20	20.3	20.5	21.9	23.5	23.6	23.6	21.5	21.2
7/6/2024	21	19.9	20.1	21.2	23.0	23.1	23.1	21.4	20.9
7/6/2024	22	19.8	19.9	20.6	22.4	22.6	22.6	21.4	20.9
7/6/2024	23	19.7	19.7	20.2	21.7	21.9	21.9	21.3	21.0
7/6/2024	24	19.5	19.7	19.8	21.1	21.2	21.2	21.2	20.8
7/7/2024	1	19.4	19.7	19.5	20.6	20.7	20.7	21.1	20.7
7/7/2024	2	19.5	19.3	19.3	20.2	20.3	20.3	21.1	20.9
7/7/2024	3	19.7	20.1	19.1	19.8	20.0	19.9	21.1	20.7
7/7/2024	4	19.7	19.6	19.0	19.6	19.7	19.6	21.1	21.0
7/7/2024	5	19.8	19.8	18.8	19.3	19.4	19.3	21.1	21.0
7/7/2024	6	19.9	20.4	18.9	19.1	19.2	19.1	21.2	20.9
7/7/2024	7	20.2	20.2	19.0	19.0	19.1	19.0	21.2	21.1
7/7/2024	8	20.0	20.2	19.4	19.1	19.1	19.0	21.2	21.0
7/7/2024	9	20.1	20.3	20.1	19.3	19.2	19.3	21.2	21.0
7/7/2024	10	19.9	20.0	20.8	19.7	19.5	19.7	21.3	21.0
7/7/2024	11	20.1	20.5	21.6	20.4	20.1	20.2	21.4	21.2
7/7/2024	12	20.4	20.9	22.3	21.3	20.9	21.1	21.5	21.3
7/7/2024	13	20.7	21.1	23.0	22.1	21.8	22.1	21.6	21.5
7/7/2024	14	20.9	21.4	23.5	23.0	22.6	22.9	21.7	21.7
7/7/2024	15	21.0	21.3	24.0	23.7	23.4	23.7	21.8	21.8
7/7/2024	16	21.0	21.2	24.1	24.1	23.9	24.2	21.9	21.9
7/7/2024	17	20.8	21.3	24.0	24.3	24.2	24.5	22.0	21.8
7/7/2024	18	20.7	21.0	23.6	24.4	24.4	24.5	22.0	21.8
7/7/2024	19	20.7	21.2	23.0	24.2	24.2	24.3	22.0	21.8
7/7/2024	20	20.5	20.8	22.2	23.8	23.9	23.9	21.9	21.7
7/7/2024	21	20.5	20.9	21.4	23.3	23.4	23.4	21.9	21.6
7/7/2024	22	20.3	20.4	20.9	22.6	22.8	22.8	21.8	21.7
7/7/2024	23	20.2	20.2	20.5	21.9	22.1	22.1	21.8	21.6
7/7/2024	24	20.0	20.2	20.2	21.3	21.5	21.5	21.7	21.5
7/8/2024	1	19.8	20.0	20.0	20.9	21.0	21.0	21.6	21.2
7/8/2024	2	19.7	19.8	19.8	20.5	20.7	20.6	21.6	21.2
7/8/2024	3	19.7	19.7	19.6	20.3	20.4	20.3	21.5	21.1
7/8/2024	4	19.7	19.7	19.3	20.0	20.1	20.0	21.5	21.3
7/8/2024	5	19.6	19.6	19.1	19.7	19.9	19.7	21.5	21.4
7/8/2024	6	19.9	20.0	19.0	19.5	19.6	19.5	21.6	21.5
7/8/2024	7	20.0	20.1	19.0	19.3	19.4	19.3	21.6	21.5
7/8/2024	8	20.3	20.7	19.3	19.3	19.3	19.3	21.6	21.5
7/8/2024	9	20.5	20.6	20.0	19.4	19.3	19.4	21.7	21.6
7/8/2024	10	20.3	21.0	20.8	19.8	19.6	19.7	21.7	21.6
7/8/2024	11	20.2	20.6	21.8	20.3	20.1	20.2	21.8	21.6
7/8/2024	12	20.2	20.6	22.6	21.3	21.0	21.1	21.8	21.4

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/8/2024	13	20.2	20.3	23.3	22.3	21.9	22.2	21.9	21.7
7/8/2024	14	20.3	20.5	23.7	23.2	22.8	23.1	22.0	21.9
7/8/2024	15	20.4	20.9	23.8	23.9	23.6	23.9	22.2	21.8
7/8/2024	16	20.7	20.8	23.8	24.3	24.1	24.4	22.4	22.4
7/8/2024	17	20.5	20.9	23.4	24.4	24.3	24.5	22.4	22.1
7/8/2024	18	20.7	20.8	23.1	24.3	24.3	24.5	22.4	22.1
7/8/2024	19	20.6	21.0	22.5	23.9	23.9	24.1	22.3	22.0
7/8/2024	20	20.2	20.6	21.8	23.4	23.5	23.6	22.2	21.9
7/8/2024	21	20.1	20.4	21.2	22.9	23.1	23.1	22.2	21.6
7/8/2024	22	19.9	20.1	20.7	22.3	22.5	22.5	22.1	21.7
7/8/2024	23	19.8	19.9	20.3	21.7	21.9	21.9	22.0	21.7
7/8/2024	24	19.7	19.8	20.0	21.2	21.3	21.3	22.0	21.6
7/9/2024	1	19.6	19.7	19.7	20.7	20.9	20.9	22.0	21.6
7/9/2024	2	19.5	19.6	19.6	20.3	20.5	20.5	21.9	21.6
7/9/2024	3	19.5	19.7	19.4	20.1	20.2	20.2	21.9	21.7
7/9/2024	4	19.8	20.2	19.2	19.8	20.0	19.9	22.0	21.9
7/9/2024	5	19.9	20.2	19.1	19.6	19.7	19.6	22.1	22.0
7/9/2024	6	20.0	20.2	19.0	19.5	19.5	19.5	22.2	22.0
7/9/2024	7	20.1	20.2	19.2	19.3	19.4	19.3	22.3	22.2
7/9/2024	8	20.6	21.1	19.7	19.4	19.3	19.3	22.4	22.2
7/9/2024	9	20.8	21.2	20.3	19.6	19.4	19.5	22.5	22.3
7/9/2024	10	20.6	20.6	21.0	20.1	19.8	19.9	22.6	22.4
7/9/2024	11	20.5	20.8	22.1	20.7	20.4	20.6	22.6	22.4
7/9/2024	12	20.6	20.9	23.0	21.6	21.2	21.4	22.6	22.5
7/9/2024	13	20.8	21.3	23.5	22.5	22.1	22.4	22.6	22.5
7/9/2024	14	21.0	21.4	24.0	23.5	23.1	23.4	22.7	22.7
7/9/2024	15	20.9	21.2	24.2	24.2	23.8	24.2	22.7	22.6
7/9/2024	16	20.8	21.2	24.3	24.6	24.3	24.6	22.7	22.6
7/9/2024	17	20.8	21.1	24.2	24.8	24.6	24.9	22.7	22.6
7/9/2024	18	20.5	20.8	23.7	24.8	24.7	24.9	22.7	22.4
7/9/2024	19	20.3	20.5	23.0	24.4	24.5	24.6	22.7	22.3
7/9/2024	20	20.1	20.3	22.3	24.0	24.1	24.2	22.6	22.5
7/9/2024	21	20.0	20.2	21.5	23.5	23.6	23.7	22.6	22.3
7/9/2024	22	19.9	20.1	20.8	22.9	23.0	23.1	22.6	22.3
7/9/2024	23	19.8	19.9	20.4	22.2	22.4	22.4	22.6	22.4
7/9/2024	24	19.8	20.0	20.1	21.5	21.7	21.7	22.5	22.5
7/10/2024	1	19.8	20.0	19.9	21.0	21.2	21.2	22.5	22.4
7/10/2024	2	19.7	19.7	19.7	20.6	20.8	20.7	22.5	22.4
7/10/2024	3	19.6	19.7	19.6	20.3	20.5	20.4	22.5	22.3
7/10/2024	4	19.6	19.7	19.5	20.1	20.2	20.1	22.5	22.3
7/10/2024	5	19.6	19.6	19.3	19.9	20.0	19.9	22.5	22.2
7/10/2024	6	19.5	19.6	19.2	19.7	19.8	19.7	22.4	22.1
7/10/2024	7	19.6	19.8	19.2	19.6	19.7	19.6	22.0	22.1
7/10/2024	8	20.0	20.4	19.5	19.7	19.6	19.6	22.4	22.5
7/10/2024	9	20.2	20.3	19.9	19.7	19.6	19.7	22.7	22.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/10/2024	10	19.9	20.2	20.6	20.1	19.8	20.0	22.7	22.3
7/10/2024	11	20.1	20.5	21.7	20.5	20.3	20.5	22.6	22.2
7/10/2024	12	20.2	20.6	22.4	21.4	21.1	21.3	22.6	22.3
7/10/2024	13	20.3	20.8	22.9	22.5	22.1	22.4	22.8	22.4
7/10/2024	14	20.3	20.7	23.4	23.3	23.0	23.2	23.0	22.7
7/10/2024	15	20.7	21.3	23.5	23.8	23.5	23.7	23.3	23.0
7/10/2024	16	21.2	21.5	23.5	24.0	23.8	24.1	23.6	23.4
7/10/2024	17	20.8	21.2	23.3	24.0	24.0	24.1	23.8	23.6
7/10/2024	18	21.0	21.5	23.0	23.8	23.9	24.0	24.0	23.8
7/10/2024	19	21.8	22.3	22.4	23.3	23.4	23.4	24.2	24.0
7/10/2024	20	22.9	23.4	21.7	22.9	22.9	22.9	24.3	24.2
7/10/2024	21	23.1	23.4	21.4	22.4	22.5	22.5	24.3	24.3
7/10/2024	22	23.4	23.8	21.6	21.8	22.0	21.9	24.3	24.3
7/10/2024	23	23.5	23.8	21.9	21.4	21.5	21.4	24.3	24.1
7/10/2024	24	23.7	23.9	22.0	21.4	21.4	21.3	24.3	24.0
7/11/2024	1	23.6	23.8	22.0	21.6	21.6	21.4	24.3	23.7
7/11/2024	2	23.5	23.8	22.0	21.7	21.7	21.6	24.3	23.2
7/11/2024	3	23.6	23.8	22.0	21.7	21.7	21.6	24.2	23.2
7/11/2024	4	23.6	23.8	21.8	21.6	21.6	21.5	24.2	23.4
7/11/2024	5	23.6	23.7	21.6	21.5	21.5	21.4	24.2	23.4
7/11/2024	6	23.6	23.7	21.6	21.4	21.4	21.3	24.1	23.6
7/11/2024	7	23.6	23.8	21.7	21.3	21.3	21.2	24.1	23.9
7/11/2024	8	23.6	23.8	22.1	21.4	21.3	21.3	24.1	23.8
7/11/2024	9	23.4	23.6	22.7	21.7	21.5	21.5	24.1	23.7
7/11/2024	10	23.3	23.6	23.3	22.2	21.9	21.9	24.1	23.6
7/11/2024	11	23.4	23.7	24.0	22.9	22.5	22.7	24.0	23.7
7/11/2024	12	23.5	23.8	24.6	23.7	23.3	23.5	24.0	23.8
7/11/2024	13	23.6	23.9	25.2	24.4	24.1	24.3	22.6	23.9
7/11/2024	14	23.7	24.1	25.6	25.1	24.8	25.0	24.3	24.0
7/11/2024	15	23.7	24.1	25.8	25.6	25.3	25.5	24.4	24.1
7/11/2024	16	23.8	24.2	25.8	25.9	25.7	25.9	24.5	24.2
7/11/2024	17	23.9	24.2	25.5	25.9	25.9	26.0	24.5	24.3
7/11/2024	18	24.0	24.3	25.0	25.7	25.7	25.8	24.5	24.4
7/11/2024	19	24.0	24.2	24.6	25.3	25.4	25.4	24.5	24.4
7/11/2024	20	24.0	24.3	24.0	24.9	25.0	25.0	24.5	24.4
7/11/2024	21	24.0	24.2	23.5	24.5	24.6	24.6	24.5	24.4
7/11/2024	22	24.0	24.2	23.1	23.9	24.1	24.1	24.5	24.3
7/11/2024	23	24.0	24.2	22.8	23.3	23.5	23.4	24.5	24.1
7/11/2024	24	24.0	24.2	22.6	22.9	23.0	22.9	24.4	24.2
7/12/2024	1	24.0	24.1	22.5	22.6	22.7	22.6	24.4	24.0
7/12/2024	2	23.9	24.1	22.4	22.4	22.5	22.4	24.3	23.8
7/12/2024	3	23.9	24.0	22.4	22.3	22.3	22.2	24.2	23.7
7/12/2024	4	23.8	24.0	22.4	22.2	22.2	22.1	24.2	23.8
7/12/2024	5	23.8	24.0	22.4	22.1	22.1	22.0	24.1	23.7
7/12/2024	6	23.8	23.9	22.5	22.2	22.1	22.0	24.0	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)
7/12/2024	7	23.8	23.9	22.6	22.2	22.2	22.1	24.0	24.0
7/12/2024	8	23.7	23.9	22.9	22.4	22.3	22.3	24.0	23.9
7/12/2024	9	23.6	23.8	23.3	22.6	22.4	22.5	24.0	23.8
7/12/2024	10	23.5	23.7	23.8	23.0	22.7	22.8	24.0	23.7
7/12/2024	11	23.5	23.7	24.4	23.6	23.3	23.4	24.1	23.7
7/12/2024	12	23.5	23.8	25.0	24.3	24.0	24.2	24.1	23.8
7/12/2024	13	23.6	24.0	25.6	25.0	24.7	24.9	24.2	23.8
7/12/2024	14	23.7	24.1	26.1	25.6	25.3	25.6	24.3	23.9
7/12/2024	15	23.7	24.0	26.3	26.1	25.8	26.1	24.3	24.0
7/12/2024	16	23.7	24.1	26.4	26.3	26.2	26.4	24.4	24.1
7/12/2024	17	23.8	24.1	26.0	26.4	26.4	26.6	24.4	24.2
7/12/2024	18	23.8	24.1	25.6	26.4	26.4	26.5	24.4	24.2
7/12/2024	19	23.8	24.0	25.0	26.1	26.1	26.2	24.3	24.2
7/12/2024	20	23.8	24.0	24.4	25.7	25.8	25.8	24.2	24.2
7/12/2024	21	23.5	23.6	23.8	25.2	25.3	25.3	24.1	24.0
7/12/2024	22	22.8	22.8	23.3	24.7	24.8	24.8	24.0	23.6
7/12/2024	23	22.2	22.3	23.0	24.1	24.3	24.3	24.0	23.3
7/12/2024	24	21.8	21.8	22.7	23.6	23.8	23.8	23.9	23.2
7/13/2024	1	21.4	21.5	22.2	23.2	23.4	23.3	23.8	23.1
7/13/2024	2	21.1	21.2	21.8	22.9	23.0	22.9	23.7	22.3
7/13/2024	3	20.8	20.8	21.3	22.5	22.7	22.6	23.6	22.1
7/13/2024	4	20.6	20.6	21.0	22.1	22.3	22.2	23.6	23.1
7/13/2024	5	20.4	20.4	20.7	21.7	21.9	21.8	23.5	23.0
7/13/2024	6	20.3	20.3	20.4	21.4	21.5	21.4	23.4	22.8
7/13/2024	7	20.1	20.1	20.3	21.1	21.2	21.1	22.2	21.2
7/13/2024	8	20.0	20.2	20.4	20.9	21.0	21.0	21.8	21.9
7/13/2024	9	20.1	20.3	20.7	20.9	20.9	21.0	22.4	22.6
7/13/2024	10	20.5	20.8	21.2	21.0	20.9	21.1	22.9	22.7
7/13/2024	11	21.1	21.7	21.8	21.4	21.3	21.4	23.1	22.8
7/13/2024	12	20.9	21.4	22.5	22.1	21.8	22.0	23.3	23.1
7/13/2024	13	21.3	21.7	23.4	22.7	22.4	22.7	23.4	23.2
7/13/2024	14	21.6	22.1	24.2	23.4	23.1	23.4	23.5	23.3
7/13/2024	15	21.0	21.2	24.6	24.1	23.8	24.1	23.5	23.2
7/13/2024	16	21.0	21.4	24.8	24.7	24.4	24.6	23.6	23.2
7/13/2024	17	21.6	21.9	24.7	24.9	24.8	25.0	23.7	23.5
7/13/2024	18	21.2	21.5	24.0	25.1	25.0	25.2	23.8	23.4
7/13/2024	19	21.5	21.7	23.3	24.8	24.9	25.0	23.8	23.6
7/13/2024	20	21.6	22.0	22.7	24.5	24.5	24.6	23.9	23.4
7/13/2024	21	21.8	22.0	22.0	23.8	24.0	24.0	24.0	23.7
7/13/2024	22	21.5	21.7	21.6	23.3	23.4	23.4	24.0	23.6
7/13/2024	23	21.4	21.4	21.4	22.6	22.8	22.8	23.9	23.5
7/13/2024	24	21.1	21.0	21.3	22.1	22.3	22.3	23.9	23.5
7/14/2024	1	20.8	20.9	21.1	21.8	21.9	21.8	23.8	23.4
7/14/2024	2	20.7	20.8	20.9	21.6	21.7	21.6	23.7	23.4
7/14/2024	3	20.7	20.8	20.6	21.4	21.5	21.4	23.7	23.4

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/14/2024	4	20.8	21.0	20.3	21.2	21.3	21.2	23.6	23.4
7/14/2024	5	20.9	21.1	20.2	20.9	21.0	20.9	23.5	23.3
7/14/2024	6	20.9	21.1	20.1	20.6	20.7	20.7	23.5	23.2
7/14/2024	7	21.3	21.7	20.2	20.4	20.5	20.4	23.1	23.0
7/14/2024	8	22.2	22.8	20.5	20.4	20.4	20.4	23.5	23.4
7/14/2024	9	22.9	23.2	21.0	20.6	20.4	20.5	23.7	23.6
7/14/2024	10	23.0	23.3	21.8	20.9	20.7	20.8	23.9	23.8
7/14/2024	11	23.1	23.5	23.1	21.5	21.2	21.3	24.1	23.9
7/14/2024	12	22.9	23.1	24.2	22.3	21.9	22.1	24.1	23.9
7/14/2024	13	22.6	22.9	25.1	23.3	22.9	23.1	24.2	23.9
7/14/2024	14	22.4	22.7	25.7	24.4	23.9	24.1	24.2	24.0
7/14/2024	15	22.3	22.7	25.9	25.3	24.8	25.0	24.3	24.0
7/14/2024	16	22.2	22.6	25.8	25.7	25.5	25.7	24.3	24.0
7/14/2024	17	22.2	22.5	25.3	25.9	25.8	26.0	24.4	24.1
7/14/2024	18	21.9	22.2	24.6	25.8	25.8	25.9	24.4	24.1
7/14/2024	19	22.0	22.4	23.8	25.3	25.4	25.4	24.5	24.1
7/14/2024	20	22.4	22.7	23.1	24.7	24.8	24.8	24.5	24.3
7/14/2024	21	22.5	22.9	22.4	24.1	24.2	24.2	24.5	24.4
7/14/2024	22	23.0	23.4	21.9	23.4	23.6	23.6	24.5	24.4
7/14/2024	23	23.2	23.5	21.8	22.8	23.0	23.0	24.5	24.4
7/14/2024	24	23.0	23.4	21.8	22.3	22.4	22.4	24.5	24.3
7/15/2024	1	22.8	23.2	21.8	22.0	22.1	22.0	24.5	24.0
7/15/2024	2	22.9	23.4	21.8	21.8	21.8	21.7	24.5	23.5
7/15/2024	3	23.1	23.6	21.7	21.7	21.7	21.6	24.5	23.1
7/15/2024	4	23.3	23.8	21.5	21.6	21.6	21.5	24.5	23.5
7/15/2024	5	23.5	23.9	21.5	21.5	21.6	21.4	24.5	22.0
7/15/2024	6	23.6	24.0	21.5	21.4	21.4	21.3	24.4	23.8
7/15/2024	7	24.1	24.3	21.6	21.3	21.3	21.2	24.4	24.5
7/15/2024	8	24.1	24.3	21.9	21.3	21.2	21.2	24.6	24.3
7/15/2024	9	23.8	24.0	22.4	21.5	21.4	21.4	24.6	24.1
7/15/2024	10	23.7	23.9	23.1	21.8	21.6	21.7	24.5	24.0
7/15/2024	11	23.7	24.0	24.0	22.5	22.2	22.3	24.4	24.0
7/15/2024	12	23.8	24.1	24.8	23.3	22.9	23.1	24.4	24.1
7/15/2024	13	23.9	24.2	25.5	24.1	23.7	24.0	24.3	24.2
7/15/2024	14	24.0	24.3	26.0	24.9	24.5	24.8	24.4	24.3
7/15/2024	15	24.0	24.4	26.5	25.5	25.1	25.4	24.5	24.3
7/15/2024	16	24.1	24.4	26.5	25.9	25.6	25.9	24.5	24.4
7/15/2024	17	24.1	24.4	26.3	26.1	26.0	26.2	24.6	24.5
7/15/2024	18	24.1	24.5	25.9	26.3	26.2	26.3	24.7	24.6
7/15/2024	19	24.2	24.5	25.2	26.2	26.2	26.2	24.7	24.6
7/15/2024	20	24.3	24.5	24.5	25.9	25.9	25.9	24.8	24.6
7/15/2024	21	24.2	24.4	23.8	25.6	25.6	25.6	24.8	24.6
7/15/2024	22	24.3	24.4	23.2	24.9	25.1	25.1	24.8	24.6
7/15/2024	23	24.3	24.5	22.7	24.3	24.5	24.4	24.7	24.5
7/15/2024	24	24.3	24.5	22.4	23.6	23.8	23.8	24.7	24.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/16/2024	1	24.3	24.4	22.1	23.1	23.3	23.2	24.6	24.4
7/16/2024	2	24.3	24.4	21.9	22.6	22.8	22.7	24.6	24.4
7/16/2024	3	24.2	24.4	21.9	22.3	22.4	22.3	24.5	24.2
7/16/2024	4	24.2	24.3	21.9	22.0	22.1	22.0	24.5	23.9
7/16/2024	5	24.2	24.3	22.0	21.7	21.9	21.7	24.4	24.0
7/16/2024	6	24.1	24.2	22.1	21.6	21.7	21.6	24.5	24.1
7/16/2024	7	24.1	24.3	22.1	21.7	21.7	21.5	24.5	24.3
7/16/2024	8	24.1	24.3	22.4	21.9	23.3	23.2	24.5	24.3
7/16/2024	9	24.0	24.2	22.9	22.1	23.4	23.3	24.4	24.2
7/16/2024	10	23.9	24.1	23.6	22.4	23.5	23.4	24.3	24.1
7/16/2024	11	23.8	24.1	24.5	22.8	23.6	23.6	24.3	24.1
7/16/2024	12	23.9	24.2	25.1	23.3	23.9	23.9	24.4	24.1
7/16/2024	13	23.9	24.3	25.8	24.1	24.2	24.3	24.5	24.1
7/16/2024	14	24.0	24.3	26.4	25.0	24.5	24.7	24.6	24.3
7/16/2024	15	24.2	24.6	26.6	25.7	24.7	25.1	24.6	24.4
7/16/2024	16	24.2	24.5	26.6	26.2	24.9	25.3	24.7	24.5
7/16/2024	17	24.3	24.6	26.5	26.4	25.0	25.5	24.8	24.6
7/16/2024	18	24.3	24.6	26.2	26.5	25.1	25.5	24.8	24.6
7/16/2024	19	24.3	24.5	25.6	26.4	25.0	25.4	24.8	24.6
7/16/2024	20	24.2	24.4	25.0	26.1	25.0	25.2	24.8	24.6
7/16/2024	21	23.9	23.9	24.2	25.7	24.8	25.0	24.7	24.4
7/16/2024	22	23.3	23.4	23.7	25.3	24.6	24.7	24.6	24.2
7/16/2024	23	22.5	22.5	23.3	24.7	24.3	24.4	24.5	24.0
7/16/2024	24	22.0	22.0	22.9	24.2	24.1	24.1	24.3	23.9
7/17/2024	1	21.6	21.7	22.5	23.7	23.9	23.8	24.2	23.9
7/17/2024	2	21.4	21.4	22.1	23.2	23.7	23.6	24.1	23.9
7/17/2024	3	21.2	21.2	21.6	22.8	23.6	23.4	24.0	23.8
7/17/2024	4	21.1	21.1	21.1	22.5	23.4	23.2	23.9	23.6
7/17/2024	5	20.9	20.9	20.7	22.1	23.2	23.0	23.7	23.6
7/17/2024	6	20.8	20.8	20.4	21.7	23.0	22.8	23.6	23.5
7/17/2024	7	20.6	20.6	20.2	21.3	21.9	21.8	22.4	22.0
7/17/2024	8	20.5	20.5	20.4	21.1	21.8	21.6	22.2	22.2
7/17/2024	9	20.3	20.4	20.8	21.0	21.8	21.7	22.3	22.1
7/17/2024	10	20.2	20.3	21.2	20.9	21.7	21.6	22.2	22.0
7/17/2024	11	20.1	20.3	21.7	21.2	21.7	21.7	22.1	21.7
7/17/2024	12	20.1	20.2	21.9	21.4	21.7	21.7	22.0	21.7
7/17/2024	13	20.1	20.3	22.5	22.0	21.9	22.0	22.1	21.8
7/17/2024	14	20.1	20.3	22.9	22.4	22.0	22.2	22.2	21.8
7/17/2024	15	20.1	20.3	23.3	23.0	22.2	22.5	22.4	22.0
7/17/2024	16	20.1	20.4	23.5	23.3	22.5	22.8	22.5	22.3
7/17/2024	17	20.2	20.5	23.3	23.5	22.8	22.9	22.8	22.6
7/17/2024	18	20.4	20.7	22.6	23.7	23.0	23.1	23.1	22.7
7/17/2024	19	20.6	20.9	21.9	23.7	23.1	23.2	23.2	23.2
7/17/2024	20	20.6	21.0	21.4	23.4	23.3	23.4	23.3	23.2
7/17/2024	21	20.8	21.0	21.1	23.0	23.3	23.3	23.5	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)
7/17/2024	22	20.9	21.1	20.9	22.5	23.1	23.0	23.5	23.3
7/17/2024	23	21.0	21.0	20.7	22.0	22.9	22.8	23.4	23.2
7/17/2024	24	20.7	20.7	20.7	21.7	22.8	22.6	23.4	23.2
7/18/2024	1	20.5	20.6	20.6	21.4	22.5	22.4	23.3	23.2
7/18/2024	2	20.6	20.7	20.6	21.2	22.5	22.3	23.2	23.0
7/18/2024	3	20.6	20.8	20.5	21.0	22.3	22.1	23.2	22.9
7/18/2024	4	20.4	20.4	20.3	20.9	22.2	22.0	23.1	22.9
7/18/2024	5	20.2	20.3	20.1	20.8	22.1	21.9	23.0	22.8
7/18/2024	6	20.1	20.2	20.0	20.7	22.0	21.8	23.1	22.7
7/18/2024	7	20.1	20.2	20.0	20.6	21.7	21.5	22.5	22.4
7/18/2024	8	20.2	20.4	20.2	20.6	21.9	21.7	22.6	22.8
7/18/2024	9	20.3	20.5	20.5	20.7	21.9	21.9	22.8	22.8
7/18/2024	10	20.3	20.5	21.1	20.8	22.0	22.1	23.0	22.8
7/18/2024	11	20.4	20.9	21.9	21.1	22.1	22.2	23.1	22.8
7/18/2024	12	20.6	21.0	22.9	21.6	22.4	22.6	23.2	23.0
7/18/2024	13	20.7	21.1	23.7	22.3	22.8	22.9	23.3	23.0
7/18/2024	14	20.8	21.1	24.4	23.2	23.1	23.3	23.4	23.2
7/18/2024	15	20.8	21.2	24.8	24.0	23.5	23.7	23.5	23.4
7/18/2024	16	20.7	21.0	25.0	24.6	23.7	24.0	23.6	23.3
7/18/2024	17	20.8	21.2	24.9	24.9	23.8	24.2	23.8	23.4
7/18/2024	18	20.9	21.2	24.5	25.2	23.9	24.3	23.9	23.7
7/18/2024	19	20.8	21.2	23.7	25.1	23.9	24.2	23.7	23.4
7/18/2024	20	20.7	20.9	22.8	24.8	23.9	24.1	23.8	23.4
7/18/2024	21	20.6	20.8	22.1	24.4	23.7	23.9	23.7	23.3
7/18/2024	22	20.6	20.8	21.5	23.9	23.4	23.5	23.6	23.1
7/18/2024	23	20.5	20.6	21.1	23.3	23.2	23.2	23.5	23.0
7/18/2024	24	20.4	20.5	20.7	22.6	23.0	22.9	23.4	23.1
7/19/2024	1	20.3	20.4	20.6	22.1	22.8	22.7	23.3	23.0
7/19/2024	2	20.3	20.4	20.4	21.7	22.6	22.4	23.2	22.8
7/19/2024	3	20.4	20.5	20.2	21.3	22.4	22.3	23.1	22.8
7/19/2024	4	20.4	20.6	20.0	21.0	22.3	22.1	23.0	22.1
7/19/2024	5	20.5	20.7	19.8	20.8	22.1	21.9	23.0	22.5
7/19/2024	6	20.6	20.7	19.7	20.6	22.0	21.8	22.9	22.6
7/19/2024	7	21.2	21.8	19.7	20.4	22.1	21.8	23.4	23.9
7/19/2024	8	23.0	23.5	20.0	20.3	22.3	22.5	24.2	24.3
7/19/2024	9	23.4	23.7	20.6	20.4	22.4	22.7	24.5	24.3
7/19/2024	10	23.1	23.7	21.2	20.6	22.5	22.8	24.6	24.2
7/19/2024	11	23.7	24.1	22.6	20.9	22.7	22.9	24.6	24.3
7/19/2024	12	23.8	24.3	24.3	21.5	23.0	23.3	24.6	24.4
7/19/2024	13	24.1	24.3	25.4	22.4	23.6	23.8	24.7	24.6
7/19/2024	14	24.1	24.5	26.2	23.5	24.1	24.2	24.7	24.6
7/19/2024	15	24.2	24.5	26.6	24.7	24.6	24.7	24.7	24.8
7/19/2024	16	23.9	24.3	26.7	25.5	24.9	25.1	24.8	24.7
7/19/2024	17	23.3	23.7	26.5	25.9	24.9	25.3	24.8	24.6
7/19/2024	18	22.5	22.7	26.1	26.3	25.0	25.4	24.8	24.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/19/2024	19	22.6	23.2	25.4	26.2	24.9	25.2	24.8	24.5
7/19/2024	20	22.8	23.0	24.5	25.9	25.0	25.2	24.8	24.7
7/19/2024	21	23.3	23.8	23.5	25.5	24.9	25.0	24.9	24.8
7/19/2024	22	22.9	23.1	22.7	25.0	24.9	24.9	24.9	24.5
7/19/2024	23	22.7	23.0	22.3	24.4	24.7	24.6	24.9	24.2
7/19/2024	24	22.5	22.5	22.1	23.7	24.4	24.3	24.9	24.0
7/20/2024	1	22.0	22.2	22.0	23.1	24.1	24.0	24.9	23.2
7/20/2024	2	22.1	22.3	21.7	22.6	23.9	23.7	24.8	NA
7/20/2024	3	22.2	22.5	21.4	22.2	23.6	23.4	24.7	NA
7/20/2024	4	22.4	22.7	21.2	22.0	23.4	23.2	24.6	NA
7/20/2024	5	22.6	22.8	21.0	21.7	23.2	23.0	24.5	NA
7/20/2024	6	22.8	23.0	20.9	21.5	23.0	22.8	24.4	23.2
7/20/2024	7	23.8	24.3	21.0	21.3	23.2	23.0	24.6	24.7
7/20/2024	8	24.4	24.6	21.4	21.3	23.2	23.2	24.8	24.7
7/20/2024	9	24.4	24.6	22.0	21.3	23.3	23.3	24.8	24.7
7/20/2024	10	24.0	24.3	22.8	21.6	23.3	23.4	24.8	24.6
7/20/2024	11	24.3	24.5	24.1	21.9	23.4	23.6	24.8	24.6
7/20/2024	12	24.4	24.8	25.2	22.6	23.8	23.9	24.9	24.8
7/20/2024	13	24.1	24.5	26.1	23.5	24.4	24.4	24.9	24.8
7/20/2024	14	23.9	24.3	26.7	24.6	24.7	24.8	24.9	24.7
7/20/2024	15	23.7	24.1	27.0	25.6	24.9	25.2	24.9	24.7
7/20/2024	16	23.2	23.5	27.1	26.2	25.1	25.5	25.0	24.7
7/20/2024	17	23.2	23.5	26.9	26.5	25.2	25.6	25.0	24.7
7/20/2024	18	23.2	23.8	26.3	26.8	25.2	25.7	25.0	24.8
7/20/2024	19	23.1	23.6	25.5	26.8	25.3	25.7	25.1	24.8
7/20/2024	20	23.4	23.7	24.6	26.4	25.3	25.6	25.1	24.9
7/20/2024	21	23.9	23.8	23.8	26.0	25.3	25.4	25.2	25.2
7/20/2024	22	23.7	24.0	23.2	25.4	25.2	25.2	25.2	25.0
7/20/2024	23	23.6	23.7	22.7	24.7	24.9	24.8	25.2	24.8
7/20/2024	24	23.7	24.0	22.5	24.0	24.7	24.5	25.1	24.9
7/21/2024	1	23.3	23.5	22.3	23.3	24.4	24.2	25.0	24.8
7/21/2024	2	23.3	23.5	22.2	22.8	24.1	23.9	24.9	24.6
7/21/2024	3	23.3	23.5	22.0	22.5	23.9	23.7	24.8	24.4
7/21/2024	4	23.4	23.6	21.8	22.2	23.7	23.5	24.7	24.3
7/21/2024	5	23.3	23.3	21.6	22.0	23.5	23.3	24.6	24.0
7/21/2024	6	22.7	22.6	21.5	21.8	23.3	23.1	24.5	23.9
7/21/2024	7	22.3	22.3	21.5	21.7	23.2	23.0	24.4	22.7
7/21/2024	8	22.0	22.1	21.8	21.6	23.1	22.9	24.3	23.0
7/21/2024	9	21.7	21.7	22.2	21.7	23.0	22.9	24.3	23.4
7/21/2024	10	21.4	21.6	22.7	22.0	23.1	23.0	24.3	23.7
7/21/2024	11	21.2	21.4	23.4	22.3	23.2	23.2	24.3	23.9
7/21/2024	12	21.1	21.3	24.2	22.9	23.4	23.5	24.3	24.3
7/21/2024	13	21.0	21.2	24.4	23.5	23.7	23.7	24.3	24.4
7/21/2024	14	20.9	21.2	24.6	24.2	24.0	24.1	24.3	24.3
7/21/2024	15	20.9	21.2	24.7	24.8	24.2	24.4	24.3	24.3

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/21/2024	16	20.9	21.1	24.2	25.0	24.2	24.4	24.3	24.4
7/21/2024	17	20.8	21.1	24.0	25.2	24.4	24.7	24.3	24.4
7/21/2024	18	20.8	21.0	23.4	25.0	24.4	24.6	24.3	24.4
7/21/2024	19	20.8	20.9	22.8	24.7	24.3	24.4	24.3	24.2
7/21/2024	20	20.7	20.8	22.3	24.3	24.2	24.2	24.4	24.2
7/21/2024	21	20.7	20.8	21.8	23.9	24.1	24.0	24.3	24.1
7/21/2024	22	20.7	20.7	21.3	23.3	23.9	23.8	24.2	24.1
7/21/2024	23	20.6	20.7	21.0	22.8	23.7	23.5	24.2	24.0
7/21/2024	24	20.6	20.6	20.7	22.3	23.4	23.3	24.1	23.5
7/22/2024	1	20.6	20.7	20.6	21.9	23.2	23.0	24.0	22.4
7/22/2024	2	20.6	20.7	20.5	21.5	23.0	22.8	23.9	21.8
7/22/2024	3	20.7	20.8	20.4	21.2	22.7	22.6	23.9	22.1
7/22/2024	4	20.7	20.8	20.3	21.1	22.6	22.4	23.8	22.9
7/22/2024	5	20.8	20.9	20.3	20.9	22.4	22.3	23.6	23.1
7/22/2024	6	20.8	20.9	20.4	20.8	22.3	22.2	23.4	22.9
7/22/2024	7	21.0	21.1	20.4	20.7	22.2	22.0	23.1	23.5
7/22/2024	8	21.3	21.6	20.4	20.7	22.4	22.4	23.8	23.8
7/22/2024	9	21.6	21.7	20.8	20.9	22.5	22.5	23.9	23.7
7/22/2024	10	21.4	21.7	21.3	21.0	22.5	22.6	23.8	23.5
7/22/2024	11	21.5	21.8	22.0	21.2	22.6	22.6	23.7	23.3
7/22/2024	12	21.6	21.9	23.0	21.7	22.7	22.8	23.6	23.3
7/22/2024	13	21.6	21.9	23.8	22.3	22.9	23.0	23.6	23.3
7/22/2024	14	21.6	21.9	24.5	23.0	23.1	23.2	23.5	23.1
7/22/2024	15	21.6	21.9	25.0	23.8	23.3	23.5	23.5	23.1
7/22/2024	16	21.5	21.8	25.3	24.5	23.5	23.8	23.6	23.2
7/22/2024	17	21.5	21.7	25.2	24.9	23.7	24.1	23.6	23.4
7/22/2024	18	21.5	21.7	24.7	25.2	23.9	24.2	23.8	23.4
7/22/2024	19	21.5	21.7	23.9	25.2	23.9	24.1	24.0	23.6
7/22/2024	20	21.6	21.9	23.0	24.8	24.1	24.1	24.3	24.3
7/22/2024	21	21.9	22.2	22.2	24.3	24.3	24.3	24.5	24.4
7/22/2024	22	22.8	23.2	21.5	23.8	24.4	24.3	24.8	24.8
7/22/2024	23	23.1	23.2	20.9	23.1	24.2	24.0	25.0	24.7
7/22/2024	24	23.0	23.2	20.6	22.3	23.8	23.6	24.9	24.6
7/23/2024	1	22.8	23.0	20.4	21.7	23.3	23.3	24.7	23.7
7/23/2024	2	22.8	22.9	20.5	21.1	23.0	22.9	24.5	NA
7/23/2024	3	22.9	23.1	20.5	20.7	22.6	22.6	24.3	NA
7/23/2024	4	23.1	23.4	20.4	20.4	22.3	22.4	24.2	NA
7/23/2024	5	23.5	23.7	20.3	20.2	22.2	22.1	24.0	NA
7/23/2024	6	23.7	23.9	20.2	20.2	22.0	21.9	23.8	22.9
7/23/2024	7	24.2	24.4	20.3	20.1	22.4	22.5	24.7	24.7
7/23/2024	8	24.3	24.4	20.7	20.3	22.4	22.6	24.8	24.5
7/23/2024	9	24.0	24.1	21.2	20.4	22.4	22.6	24.7	24.2
7/23/2024	10	23.8	24.0	22.1	20.6	22.5	22.7	24.6	24.1
7/23/2024	11	23.8	24.0	23.2	21.0	22.6	22.8	24.5	24.1
7/23/2024	12	23.8	24.1	24.3	21.6	23.0	23.1	24.4	24.1

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/23/2024	13	23.9	24.2	25.2	22.5	23.4	23.5	24.3	24.2
7/23/2024	14	24.0	24.3	25.9	23.6	23.9	24.0	24.4	24.3
7/23/2024	15	24.1	24.5	26.3	24.6	24.4	24.5	24.5	24.4
7/23/2024	16	24.2	24.6	26.5	25.2	24.7	24.8	24.5	24.5
7/23/2024	17	24.3	24.6	26.3	25.6	24.8	25.1	24.6	24.6
7/23/2024	18	24.4	24.6	25.9	26.0	24.9	25.2	24.7	24.6
7/23/2024	19	24.3	24.5	25.2	25.9	24.9	25.1	24.7	24.6
7/23/2024	20	24.3	24.5	24.4	25.6	24.8	24.9	24.8	24.6
7/23/2024	21	24.3	24.5	23.7	25.2	24.8	24.7	24.8	24.6
7/23/2024	22	24.3	24.5	23.0	24.7	24.6	24.6	24.7	24.5
7/23/2024	23	24.3	24.4	22.8	24.1	24.4	24.3	24.6	24.4
7/23/2024	24	24.3	24.3	22.5	23.5	24.1	24.0	24.5	24.2
7/24/2024	1	24.3	24.3	22.3	22.9	23.9	23.7	24.5	24.0
7/24/2024	2	24.3	24.3	22.2	22.5	23.7	23.5	24.4	24.1
7/24/2024	3	24.2	24.2	22.1	22.3	23.5	23.3	24.3	24.1
7/24/2024	4	24.2	24.2	22.0	22.0	23.3	23.1	24.2	23.9
7/24/2024	5	24.2	24.2	21.9	21.8	23.1	22.9	24.2	23.8
7/24/2024	6	24.2	24.2	21.8	21.7	23.0	22.8	24.2	23.7
7/24/2024	7	24.1	24.2	21.8	21.6	23.1	23.0	24.5	24.3
7/24/2024	8	24.1	24.3	22.1	21.7	23.2	23.1	24.4	24.3
7/24/2024	9	23.9	24.0	22.6	21.9	23.2	23.2	24.2	24.1
7/24/2024	10	23.1	23.1	23.3	22.0	23.2	23.2	24.0	23.8
7/24/2024	11	22.7	22.8	24.2	22.3	23.2	23.2	24.0	23.6
7/24/2024	12	22.4	22.8	25.2	23.0	23.4	23.4	24.0	23.6
7/24/2024	13	22.7	23.2	25.9	23.8	23.7	23.8	24.1	23.8
7/24/2024	14	22.6	22.9	26.1	24.7	24.1	24.3	24.1	23.9
7/24/2024	15	22.8	23.1	26.1	25.6	24.4	24.7	24.1	24.0
7/24/2024	16	23.0	23.4	25.9	26.0	24.6	25.0	24.2	24.1
7/24/2024	17	22.9	23.1	25.6	26.1	24.7	25.1	24.2	24.1
7/24/2024	18	22.9	23.2	25.0	26.1	24.6	24.9	24.2	24.1
7/24/2024	19	23.0	23.4	24.1	25.6	24.5	24.7	24.3	24.0
7/24/2024	20	23.0	23.1	23.1	25.0	24.4	24.4	24.3	24.1
7/24/2024	21	23.4	23.4	22.1	24.4	24.2	24.1	24.3	24.1
7/24/2024	22	23.7	23.7	21.4	23.7	24.0	23.8	24.3	24.1
7/24/2024	23	23.6	23.6	21.1	22.8	23.6	23.4	24.2	23.9
7/24/2024	24	23.6	23.7	20.9	22.0	23.2	23.0	24.1	23.9
7/25/2024	1	23.7	23.7	20.9	21.4	22.8	22.7	24.0	23.8
7/25/2024	2	23.7	23.6	20.8	20.9	22.5	22.4	23.8	23.6
7/25/2024	3	23.7	23.7	21.0	20.6	22.3	22.2	23.7	23.5
7/25/2024	4	23.6	23.6	21.1	20.5	22.1	22.0	23.6	23.3
7/25/2024	5	23.6	23.6	21.1	20.5	22.0	21.8	23.5	23.1
7/25/2024	6	23.6	23.5	21.1	20.5	21.9	21.7	23.4	22.9
7/25/2024	7	23.6	23.6	21.2	20.6	22.2	22.1	24.0	23.7
7/25/2024	8	23.5	23.6	21.4	20.8	22.3	22.2	23.9	23.6
7/25/2024	9	23.4	23.4	21.7	20.9	22.3	22.3	23.8	23.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/25/2024	10	23.3	23.4	22.3	21.1	22.3	22.3	23.8	23.4
7/25/2024	11	23.2	23.3	23.0	21.3	22.5	22.5	23.8	23.3
7/25/2024	12	23.1	23.3	23.7	21.8	22.7	22.7	23.7	23.3
7/25/2024	13	23.1	23.3	24.3	22.5	23.0	23.0	23.7	23.3
7/25/2024	14	23.1	23.3	25.0	23.1	23.2	23.3	23.6	23.4
7/25/2024	15	23.1	23.4	25.2	23.8	23.5	23.5	23.6	23.4
7/25/2024	16	23.2	23.4	25.3	24.1	23.6	23.7	23.6	23.4
7/25/2024	17	23.3	23.4	25.0	24.3	23.7	23.8	23.6	23.4
7/25/2024	18	23.3	23.4	24.3	24.4	23.8	23.8	23.5	23.5
7/25/2024	19	23.3	23.3	23.5	24.3	23.7	23.7	23.5	23.4
7/25/2024	20	23.2	23.3	22.6	24.1	23.6	23.5	23.5	23.4
7/25/2024	21	23.2	23.1	21.7	23.6	23.4	23.4	23.5	23.4
7/25/2024	22	23.1	23.0	21.1	23.0	23.2	23.1	23.4	23.3
7/25/2024	23	23.0	23.0	20.7	22.3	23.0	22.8	23.4	23.2
7/25/2024	24	23.0	22.9	20.5	21.6	22.7	22.4	23.4	23.1
7/26/2024	1	23.0	22.9	20.4	20.9	22.4	22.1	23.3	23.1
7/26/2024	2	22.9	22.9	20.4	20.5	22.1	21.9	23.2	23.0
7/26/2024	3	22.9	22.8	20.4	20.2	21.9	21.7	23.1	22.8
7/26/2024	4	22.9	22.8	20.4	20.1	21.7	21.5	23.0	22.7
7/26/2024	5	22.8	22.8	20.4	20.0	21.6	21.4	23.0	22.5
7/26/2024	6	22.8	22.7	20.3	19.9	21.4	21.2	22.9	22.4
7/26/2024	7	22.8	22.8	20.3	19.9	21.6	21.5	23.2	22.9
7/26/2024	8	22.7	22.8	20.5	20.1	21.6	21.5	23.2	22.8
7/26/2024	9	22.7	22.7	20.9	20.2	21.6	21.6	23.2	22.7
7/26/2024	10	22.6	22.7	21.6	20.4	21.7	21.7	23.1	22.7
7/26/2024	11	22.6	22.8	22.4	20.7	21.9	21.9	23.1	22.7
7/26/2024	12	22.6	22.8	23.4	21.3	22.1	22.2	23.1	22.8
7/26/2024	13	22.6	22.9	24.3	22.1	22.5	22.6	23.0	22.8
7/26/2024	14	22.7	23.0	24.8	23.0	22.9	23.0	23.1	22.9
7/26/2024	15	22.9	23.1	25.1	23.8	23.2	23.4	23.1	23.0
7/26/2024	16	22.9	23.1	25.2	24.3	23.4	23.7	23.2	23.1
7/26/2024	17	23.0	23.2	25.0	24.7	23.6	23.9	23.2	23.2
7/26/2024	18	23.0	23.2	24.6	24.8	23.6	23.9	23.3	23.2
7/26/2024	19	23.1	23.2	24.0	24.7	23.6	23.8	23.3	23.2
7/26/2024	20	23.1	23.2	23.3	24.4	23.5	23.6	23.4	23.2
7/26/2024	21	23.1	23.1	22.6	24.0	23.4	23.4	23.4	23.2
7/26/2024	22	23.0	23.1	22.0	23.4	23.2	23.2	23.3	23.1
7/26/2024	23	23.0	23.0	21.7	22.9	23.1	23.0	23.3	23.0
7/26/2024	24	22.9	22.9	21.4	22.4	22.8	22.7	23.2	22.9
7/27/2024	1	22.9	22.9	21.3	22.0	22.7	22.5	23.2	22.9
7/27/2024	2	22.9	22.9	21.1	21.6	22.5	22.3	23.1	22.8
7/27/2024	3	22.9	22.9	21.0	21.3	22.3	22.1	23.0	22.8
7/27/2024	4	22.8	22.8	20.9	21.1	22.2	22.0	23.0	22.7
7/27/2024	5	22.8	22.7	20.9	20.9	22.0	21.8	22.9	22.6
7/27/2024	6	22.8	22.7	20.8	20.7	21.9	21.7	22.9	22.5

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/27/2024	7	22.7	22.8	20.8	20.7	22.0	21.8	22.9	22.9
7/27/2024	8	22.7	22.7	21.0	20.8	22.0	21.8	22.9	22.8
7/27/2024	9	22.4	22.4	21.4	20.9	21.9	21.8	22.9	22.6
7/27/2024	10	22.3	22.4	22.0	21.1	21.9	21.9	22.8	22.4
7/27/2024	11	22.2	22.3	22.8	21.4	22.0	22.0	22.8	22.4
7/27/2024	12	22.2	22.3	23.8	21.9	22.2	22.3	22.8	22.4
7/27/2024	13	22.1	22.3	24.5	22.7	22.5	22.6	22.7	22.4
7/27/2024	14	22.0	22.2	25.0	23.5	22.8	23.0	22.7	22.5
7/27/2024	15	22.0	22.2	25.2	24.2	22.9	23.3	22.7	22.5
7/27/2024	16	22.0	22.2	25.2	24.7	23.1	23.6	22.7	22.6
7/27/2024	17	22.0	22.2	24.8	24.9	23.2	23.8	22.7	22.7
7/27/2024	18	22.1	22.2	24.3	25.1	23.2	23.7	22.8	22.6
7/27/2024	19	22.1	22.2	23.6	24.8	23.1	23.5	22.8	22.7
7/27/2024	20	22.0	22.1	22.8	24.4	23.0	23.4	22.8	22.6
7/27/2024	21	22.0	22.1	22.1	24.0	23.0	23.1	22.8	22.6
7/27/2024	22	22.0	22.0	21.6	23.4	22.8	22.9	22.8	22.6
7/27/2024	23	22.0	22.1	21.2	22.8	22.7	22.7	22.8	22.5
7/27/2024	24	22.1	22.1	20.9	22.3	22.5	22.4	22.7	22.4
7/28/2024	1	22.1	22.1	20.7	21.7	22.3	22.1	22.7	22.4
7/28/2024	2	22.0	22.0	20.4	21.3	22.1	21.8	22.6	22.3
7/28/2024	3	22.0	22.0	20.3	20.9	21.9	21.7	22.5	22.2
7/28/2024	4	22.0	22.0	20.2	20.7	21.7	21.5	22.5	22.2
7/28/2024	5	22.0	22.1	20.1	20.4	21.6	21.3	22.4	22.2
7/28/2024	6	22.1	22.2	20.0	20.2	21.4	21.2	22.4	22.1
7/28/2024	7	22.2	22.2	20.0	20.1	21.2	21.1	22.3	22.0
7/28/2024	8	22.2	22.3	20.2	20.0	21.1	21.0	22.3	22.0
7/28/2024	9	22.2	22.3	20.6	20.2	21.1	21.0	22.2	21.9
7/28/2024	10	22.2	22.3	21.2	20.4	21.2	21.2	22.1	21.9
7/28/2024	11	22.2	22.4	22.1	20.7	21.3	21.4	22.1	22.0
7/28/2024	12	22.2	22.4	23.1	21.2	21.6	21.7	22.3	22.3
7/28/2024	13	22.3	22.5	24.1	22.0	21.9	22.0	22.4	23.0
7/28/2024	14	22.3	22.6	24.8	22.9	22.2	22.4	22.6	22.9
7/28/2024	15	22.3	22.5	25.3	23.8	22.6	22.9	22.7	23.0
7/28/2024	16	22.3	22.6	25.1	24.4	22.8	23.3	22.8	23.1
7/28/2024	17	22.4	22.6	24.8	24.8	23.0	23.6	22.8	23.0
7/28/2024	18	22.4	22.6	24.5	25.1	23.2	23.7	22.8	22.9
7/28/2024	19	22.4	22.5	23.9	24.9	23.2	23.6	22.9	22.9
7/28/2024	20	22.4	22.5	23.0	24.5	23.2	23.4	22.9	22.8
7/28/2024	21	22.4	22.4	22.3	24.1	23.1	23.2	22.9	22.7
7/28/2024	22	22.4	22.4	21.8	23.5	22.9	23.0	22.9	22.5
7/28/2024	23	22.4	22.4	21.4	22.9	22.8	22.8	22.8	22.6
7/28/2024	24	22.4	22.4	21.2	22.4	22.6	22.5	22.8	22.3
7/29/2024	1	22.4	22.4	21.0	21.9	22.4	22.3	22.7	22.3
7/29/2024	2	22.4	22.4	20.9	21.6	22.2	22.1	22.7	22.3
7/29/2024	3	22.4	22.4	20.8	21.2	22.1	21.9	22.6	22.2

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/29/2024	4	22.4	22.4	20.7	21.0	21.9	21.7	22.6	22.2
7/29/2024	5	22.4	22.5	20.6	20.8	21.8	21.6	22.5	22.3
7/29/2024	6	22.4	22.5	20.6	20.7	21.7	21.5	22.5	22.2
7/29/2024	7	22.5	22.5	20.7	20.6	21.8	21.7	22.8	22.7
7/29/2024	8	22.4	22.5	20.9	20.7	21.8	21.7	22.7	22.6
7/29/2024	9	22.4	22.5	21.4	20.8	21.8	21.8	22.7	22.5
7/29/2024	10	22.3	22.3	21.8	20.8	21.8	21.7	22.6	22.4
7/29/2024	11	22.2	22.3	22.2	21.1	21.8	21.8	22.6	22.3
7/29/2024	12	22.2	22.3	22.6	21.6	22.0	22.0	22.6	22.3
7/29/2024	13	22.2	22.3	22.8	21.9	22.2	22.1	22.6	22.3
7/29/2024	14	22.2	22.4	22.9	22.4	22.3	22.3	22.6	22.4
7/29/2024	15	22.2	22.4	23.1	22.8	22.5	22.6	22.6	22.4
7/29/2024	16	22.2	22.4	23.1	22.9	22.5	22.6	22.6	22.4
7/29/2024	17	22.2	22.4	23.1	22.9	22.6	22.7	22.6	22.4
7/29/2024	18	22.3	22.4	23.0	23.0	22.6	22.7	22.6	22.4
7/29/2024	19	22.3	22.4	22.8	22.9	22.6	22.6	22.6	22.4
7/29/2024	20	22.3	22.3	22.4	22.8	22.5	22.5	22.6	22.4
7/29/2024	21	22.3	22.3	21.9	22.7	22.5	22.4	22.6	22.4
7/29/2024	22	22.3	22.3	21.6	22.5	22.4	22.3	22.6	22.4
7/29/2024	23	22.2	22.3	21.3	22.2	22.3	22.2	22.5	21.9
7/29/2024	24	22.2	22.3	21.2	21.9	22.2	22.1	22.5	NA
7/30/2024	1	22.2	22.3	21.1	21.6	22.1	21.9	22.5	NA
7/30/2024	2	22.2	22.2	21.0	21.4	22.0	21.8	22.4	NA
7/30/2024	3	22.2	22.2	21.0	21.2	21.8	21.7	22.4	NA
7/30/2024	4	22.2	22.2	20.9	21.0	21.7	21.6	22.4	NA
7/30/2024	5	22.1	22.2	20.8	20.9	21.7	21.5	22.4	NA
7/30/2024	6	22.1	22.1	20.7	20.9	21.6	21.4	22.4	21.6
7/30/2024	7	22.1	22.2	20.7	20.8	21.7	21.5	22.4	22.0
7/30/2024	8	22.1	22.2	21.0	21.0	21.7	21.6	22.4	22.1
7/30/2024	9	22.1	22.2	21.4	21.1	21.7	21.6	22.5	22.1
7/30/2024	10	22.1	22.3	22.0	21.3	21.9	21.8	22.5	22.2
7/30/2024	11	22.0	22.3	22.8	21.6	22.0	22.1	22.6	22.2
7/30/2024	12	22.1	22.3	23.8	22.2	22.3	22.3	22.6	22.3
7/30/2024	13	22.1	22.4	24.7	22.9	22.5	22.7	22.6	22.3
7/30/2024	14	22.1	22.3	25.2	23.7	22.8	23.1	22.7	22.5
7/30/2024	15	22.2	22.4	25.4	24.5	23.1	23.4	22.7	22.6
7/30/2024	16	22.2	22.5	25.3	24.9	23.2	23.7	22.8	22.7
7/30/2024	17	22.3	22.5	25.1	25.2	23.3	23.9	22.8	22.7
7/30/2024	18	22.3	22.5	24.6	25.2	23.3	23.8	22.8	22.8
7/30/2024	19	22.4	22.6	23.9	25.0	23.3	23.7	22.9	22.8
7/30/2024	20	22.5	22.6	23.1	24.5	23.3	23.5	22.9	22.8
7/30/2024	21	22.6	22.7	22.4	24.1	23.2	23.3	23.0	22.8
7/30/2024	22	22.6	22.7	21.8	23.6	23.1	23.1	23.0	22.8
7/30/2024	23	22.6	22.7	21.4	23.1	22.9	22.9	23.0	21.9
7/30/2024	24	22.7	22.7	21.2	22.5	22.7	22.6	23.0	NA

Date	Hour	Low Level Outlet Pipe -Auto- (Deg. C)	Top of Reach 1 -Logger- (Deg. C)	End of Reach 1 -Logger- (Deg. C)	End of Reach 3 -Logger- (Deg. C)	Top of R4 Habitat Channel -Logger- (Deg. C)	End of R4 Habitat Channel -Logger- (Deg. C)	Tailrace at Pump Intake -Auto- (Deg. C)	Tailrace at Pump Intake -Logger- (Deg. C)
7/31/2024	1	22.7	22.7	21.1	21.9	22.5	22.3	22.9	NA
7/31/2024	2	22.6	22.7	21.0	21.5	22.3	22.1	22.9	NA
7/31/2024	3	22.6	22.6	20.9	21.2	22.1	21.9	22.8	NA
7/31/2024	4	22.6	22.6	20.8	21.0	22.0	21.8	22.8	NA
7/31/2024	5	22.5	22.6	20.7	20.9	21.9	21.6	22.7	NA
7/31/2024	6	22.5	22.5	20.7	20.7	21.7	21.5	22.7	20.7
7/31/2024	7	22.5	22.6	20.8	20.7	21.8	21.6	22.8	22.4
7/31/2024	8	22.5	22.6	21.1	20.8	21.8	21.7	22.8	22.5
7/31/2024	9	22.5	22.6	21.6	21.0	21.9	21.8	22.8	22.6
7/31/2024	10	22.5	22.7	22.3	21.2	22.0	22.0	22.8	22.6
7/31/2024	11	22.4	22.6	23.1	21.6	22.2	22.3	22.9	22.6
7/31/2024	12	22.4	22.6	24.1	22.1	22.5	22.5	22.9	22.6
7/31/2024	13	22.4	22.7	24.9	23.0	22.8	22.9	22.9	22.7
7/31/2024	14	22.4	22.7	25.6	23.9	23.1	23.4	22.9	22.8
7/31/2024	15	22.5	22.7	25.9	24.8	23.3	23.8	23.0	22.9
7/31/2024	16	22.5	22.8	25.9	25.2	23.5	24.1	23.0	22.9
7/31/2024	17	22.5	22.8	25.7	25.6	23.6	24.2	23.1	23.0
7/31/2024	18	22.6	22.8	25.2	25.8	23.6	24.3	23.2	23.0
7/31/2024	19	22.7	22.9	24.5	25.7	23.6	24.2	23.2	23.1
7/31/2024	20	22.7	22.8	23.7	25.4	23.6	24.1	23.3	23.1
7/31/2024	21	22.8	22.9	23.1	25.0	23.6	23.9	23.3	23.1
7/31/2024	22	22.8	22.9	22.6	24.5	23.5	23.7	23.4	23.2
7/31/2024	23	22.8	22.9	22.2	23.9	23.4	23.5	23.3	21.7
7/31/2024	24	22.8	22.9	21.9	23.3	23.2	23.2	23.3	22.9