Eagle Creek Hydro Power, LLC
Eagle Creek Water Resources, LLC
Eagle Creek Land Resources, LLC
c/o Eagle Creek Renewable Energy, LLC
7315 Wisconsin Avenue, Suite 1100W
Bethesda, Maryland 20814
240.482.2700

Via E-Filing

January 29, 2024

Debbie-Anne Reese, Secretary
Federal Energy Regulatory Commission
888 First St., NE
Washington, DC 20426

Subject: 2023 Annual Water Quality Monitoring Reports for Swinging Bridge Hydroelectric Project (FERC Project No. 10482), Mongaup Falls Hydroelectric Project (FERC Project No. 10481), and Rio Hydroelectric Project (FERC Project No. 9690) in Accordance with License Articles 404 and 405

Dear Secretary Reese:

Eagle Creek Hydro Power, LLC, Eagle Creek Water Resources, LLC, and Eagle Creek Land Resources, LLC ("Eagle Creek") are hereby filing the Water Quality Monitoring Report for the 2023 monitoring year. This report is provided in accordance with the May 3, 2005, Order Modifying and Approving Revised Water Quality Monitoring Plans Under Articles 404 and 405 for the Swinging Bridge (FERC P-10482), Mongaup Falls (FERC P-10481), and Rio (FERC P-9690) Hydroelectric projects (Projects).

In accordance with Articles 404 and 405, Eagle Creek provided a draft monitoring report to New York State Department of Environmental Conservation (NYSDEC) and United States Fish and Wildlife Service (USFWS), "Resource Agencies", on December 18, 2023, requesting a 30-day review be completed by January 18, 2024. Additional report review requests were sent on January 19 and 25, 2024 (Attachment A). No comments were received from the Resource Agencies.

If you have any questions regarding this notice, please contact me at (804) 338-5110 or joyce.foster@eaglecreekre.com.

Sincerely,

Eagle Creek (Licensees)

Joyce Foster

Joyce Foster
Director, Licensing and Compliance
Eagle Creek Renewable Energy

Attachments (2)

Cc: Ryan Coulter, NYSDEC
Robert Adams, NYSDEC
Garrett Vigrass, NYSDEC
Nicole Cain, NYSDEC
John Wiley, USFWS

Attachment 1. Electronic mail correspondence from Eagle Creek Hydro Power to Resource Agencies from December 18, 2023, through January 25, 2024.

From:	Benjamin Lenz
To:	Coulter, Ryan A (DEC); Adams, Robert D (DEC); Cain, Nicole E (DEC); Wiley, John; kristen.cady-poulin@dec.ny.gov
Cc:	Joyce Foster
Subject:	RE: 2023 Mongaup River (Swinging Bridge P-10482, Mongaup Falls P-10481, Rio P-9690) Hydroelectric Projects Annual Water Quality Report draft for review
Date:	Thursday, January 25, 2024 7:38:00 AM
Attachments:	image001.png

Greetings: A final reminder for submitting comments to the annual water quality draft report for the Mongaup hydro projects. If you have comments, the final date for submission is **Friday, January 26, 2024**.

Thank you,

Ben E. Lenz | Licensing and Compliance Manager
Eagle Creek Renewable Energy
Mobile: 203 240 3664
Email: benjamin.lenz@eaglecreekre.com

From: Benjamin Lenz
Sent: Friday, January 19, 2024 8:58 AM
To: Coulter, Ryan A (DEC) <ryan.coulter@dec.ny.gov>; Adams, Robert D (DEC) <robert.adams@dec.ny.gov>; Cain, Nicole E (DEC) <nicole.cain@dec.ny.gov>; Wiley, John <John_Wiley@fws.gov>; kristen.cady-poulin@dec.ny.gov
Cc: Joyce Foster <joyce.foster@eaglecreekre.com>
Subject: RE: 2023 Mongaup River (Swinging Bridge P-10482, Mongaup Falls P-10481, Rio P-9690) Hydroelectric Projects Annual Water Quality Report draft for review

Hello: A reminder if you have any comments regarding the draft annual water quality monitoring report, please reply.

Thank you,

Ben E. Lenz | Licensing and Compliance Manager

Eagle Creek Renewable Energy
Mobile: 203 240 3664
Email: benjamin.lenz@eaglecreekre.com

From: Benjamin Lenz
Sent: Monday, December 18, 2023 4:27 PM
To: Coulter, Ryan A (DEC) <ryan.coulter@dec.ny.gov>; Adams, Robert D (DEC) <robert.adams@dec.ny.gov>; Cain, Nicole E (DEC) <nicole.cain@dec.ny.gov>; Wiley, John <John_Wiley@fws.gov>; kristen.cady-poulin@dec.ny.gov
Cc: Joyce Foster <joyce.foster@eaglecreekre.com>
Subject: 2023 Mongaup River (Swinging Bridge P-10482, Mongaup Falls P-10481, Rio P-9690) Hydroelectric Projects Annual Water Quality Report draft for review

Greetings: Attached is a draft of the 2023 Mongaup River Hydroelectric Projects (Swinging Bridge, Mongaup Falls, and Rio) annual water quality report as required by License Articles 404 (Mongaup Falls) and 405 (Swinging Bridge and Rio) for your review. Please submit any comments by **Thursday, January 18, 2024**.

If you have any questions, please contact me.

Ben E. Lenz | Licensing and Compliance Manager
Eagle Creek Renewable Energy
Mobile: 203 240 3664
Email: benjamin.lenz@eaglecreekre.com

2023 Water Quality Monitoring Report

Final

Swinging Bridge Hydroelectric Project (FERC No. 10482)
Mongaup Falls Hydroelectric Project (FERC No. 10481)
Rio Hydroelectric Project (FERC No. 9690)

Prepared by:

Eagle Creek Renewable Energy, LLC

January 2024

Table of Contents

1.0 INTRODUCTION AND PURPOSE

Eagle Creek Hydro Power, LLC, Eagle Creek Water Resources, LLC, and Eagle Creek Land Resources, LLC (collectively "Eagle Creek" or "Licensees") collects continuous water temperature and dissolved oxygen (DO) water quality data at the Swinging Bridge (FERC No. P-10482), Mongaup Falls (FERC No. P-10481), and Rio (FERC No. P-9690) Projects (collectively referred to herein as the 'Projects') in accordance with a Federal Energy Regulatory Commission (FERC or Commission) approved Revised Water Quality Monitoring Plan (RWQP, October 25, 2004). Specifically, Eagle Creek collects water quality data June 1 through October 31 (Monitoring Period) annually, in three locations:

1. Swinging Bridge Project in the Mongaup River at the access bridge below the Swinging Bridge Powerhouse;
2. Mongaup Falls Project in the Mongaup River immediately downstream of the Mongaup Falls powerhouse; and
3. Rio Project in the Mongaup River downstream of the Rio powerhouse at the confluence of the powerhouse tailrace and the Mongaup River.

The RWQP details the specific monitoring equipment, quality control procedures, data collection, and reporting requirements and is incorporated, herein, by reference. Eagle Creek collected and processed water quality data during the 2023 Monitoring Period in accordance with the RWQP.

An Annual Report must be filed with FERC, with copies to the U.S. Fish and Wildlife Service (USFWS) and the New York State Department of Environmental Conservation (NYSDEC) (collectively "Agencies"), by January 31 annually. The Annual Report includes a summary of water temperature and dissolved oxygen concentration (DO) data, as well as information on Project power generation discharge for the Monitoring Period.

The Mongaup River is designated as Class 'B' (trout) waters as defined by the NYSDEC water quality criteria. As outlined in NYSDEC Water Quality Standards (Section 703.3), for trout waters (T), the DO standards are:

- The minimum daily average concentration of DO shall not be less than 6.0 mg/L.
- At no time shall the concentration be less than 5.0 mg/L.

This Annual Report provides the water temperature and DO data collected during the Monitoring Period in accordance with the RWQP.

2.0 TEMPERATURE AND DISSOLVED OXYGEN DATA AND ANALYSIS

2.1 Swinging Bridge

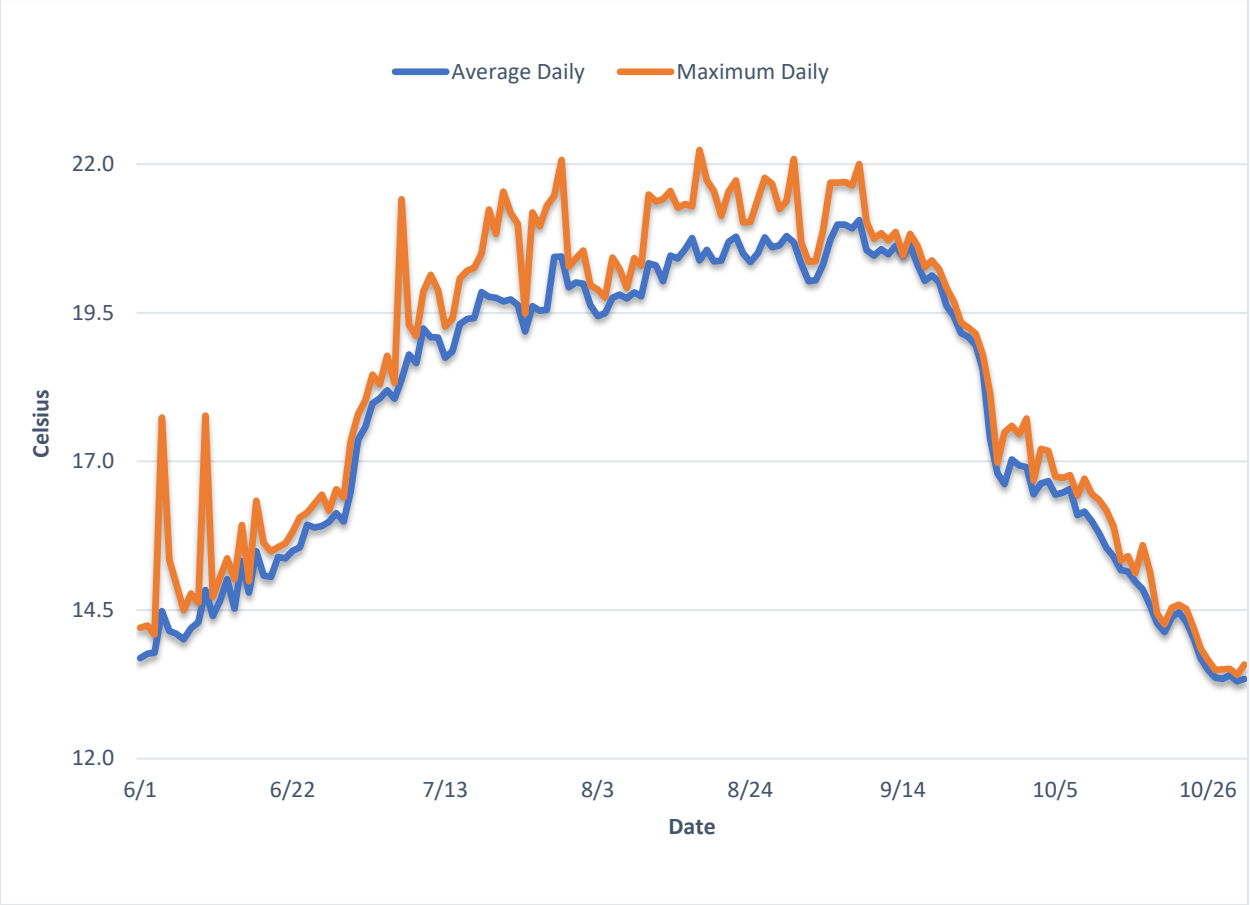
USGS Gauge No. 01433005 is located at the bridge located approximately 1,500 feet below the Swinging Bridge Dam and was operational by June 1, 2023. The gauge operated as expected and there were no data gaps during the Monitoring Period. The three-parameter instrument (DO, water temperature, and discharge) is set up to provide real-time alerts (for example, DO levels

declining below 5.5 mg/l) to Eagle Creek staff so that any necessary timely changes in Project operations can be made to maintain water quality conditions in this reach of the Mongaup River.

2.1.1 Temperature

The daily average and daily maximum water temperature data collected at the Swinging Bridge monitoring station are presented in Figure 1. Maximum daily temperature during the Monitoring Period ranged from 13.4 ^{0}C on October 30 to 22.2 ^{0}C on August 17.

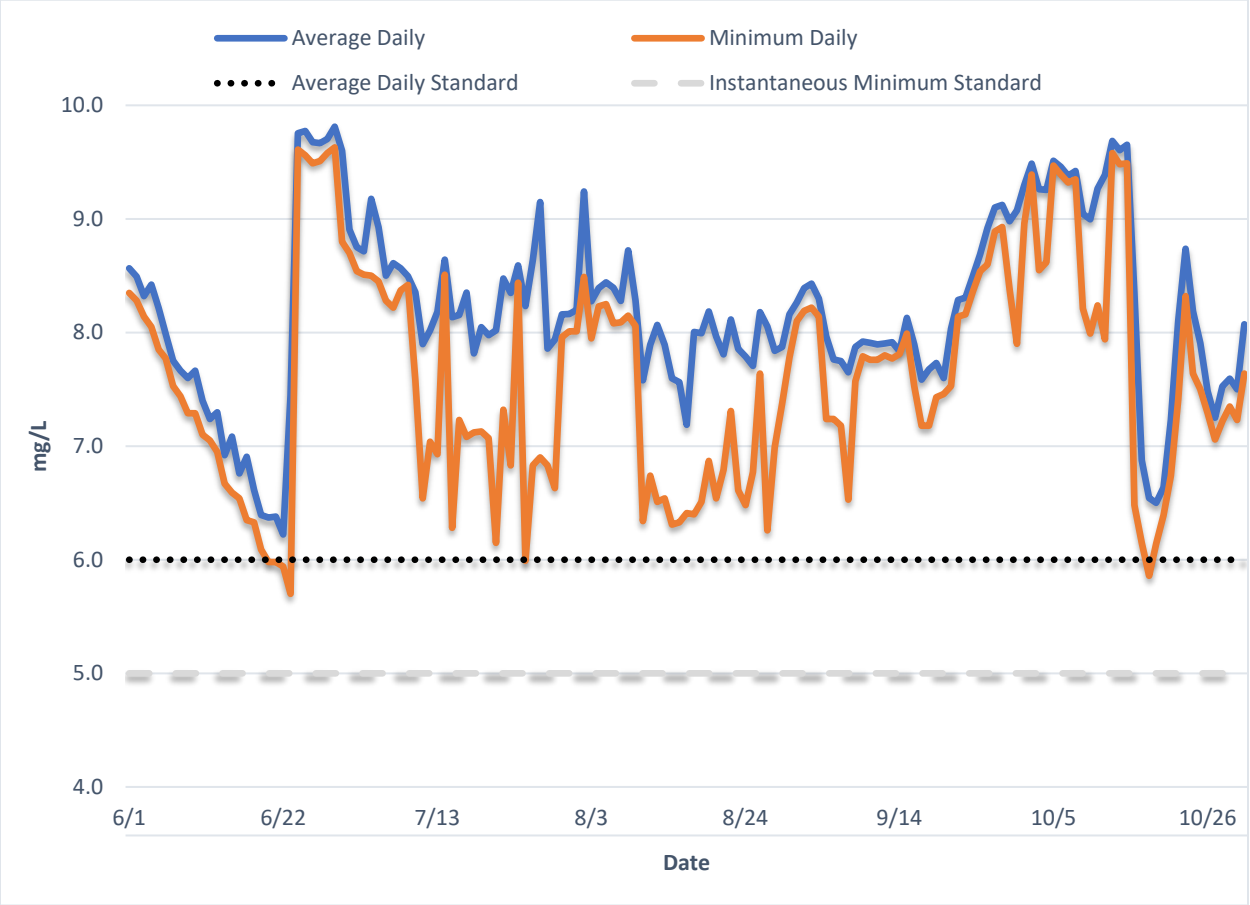
Figure 1. Water temperature at Swinging Bridge monitoring station, June 1 – October 31, 2023.



2.1.2 Dissolved Oxygen

The daily average and minimum instantaneous DO, based on continuous data collected at the Swinging Bridge monitoring station, are presented in Figure 2. During the Monitoring Period, there were zero instances when the DO concentration dropped below the daily average or instantaneous minimum standards.

Figure 2. Dissolved oxygen concentration at Swinging Bridge monitoring station, June 1 – October 31, 2023.



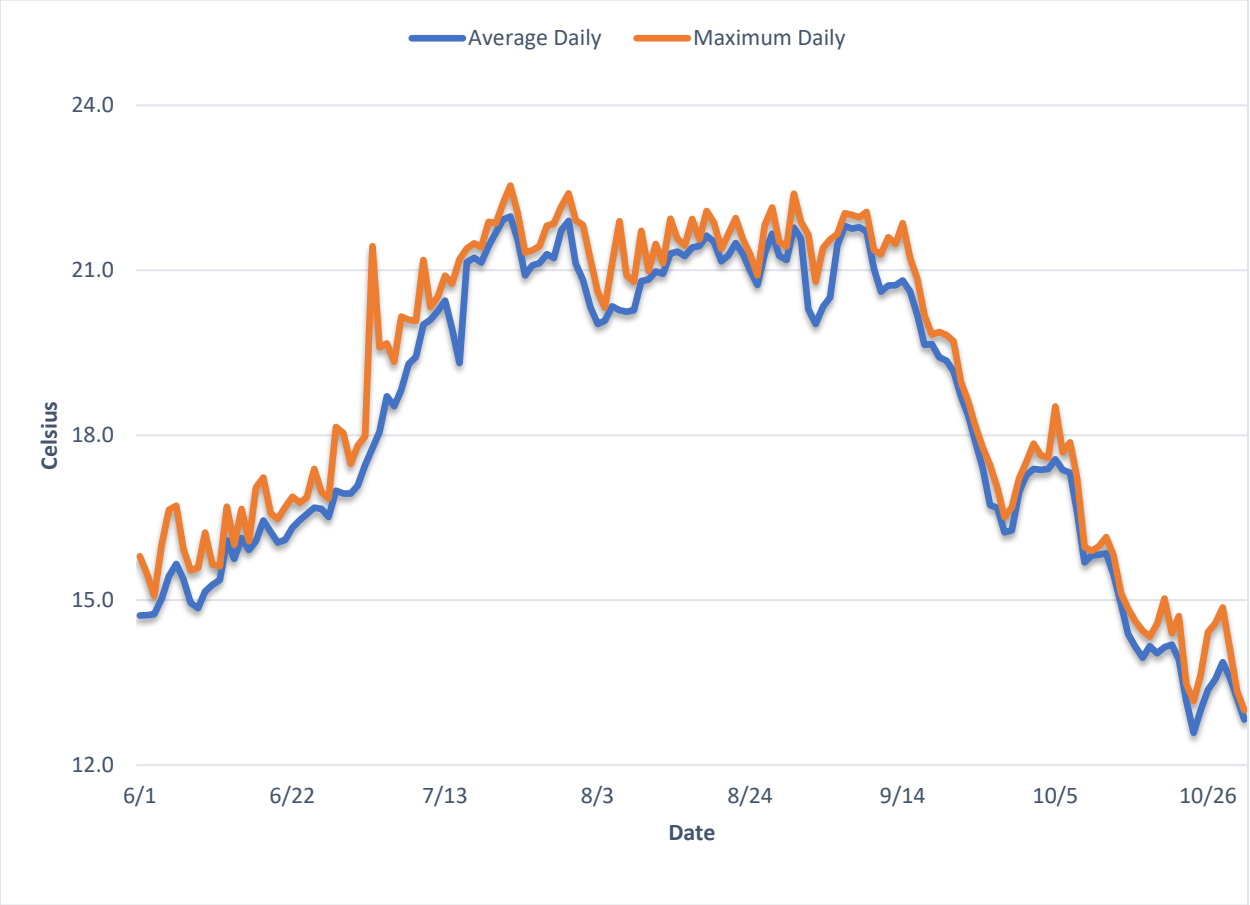
2.2 Mongaup Falls

The dual parameter (temperature and DO) water quality sonde was installed approximately 100 feet downstream of the powerhouse and operational by June 1, 2023. The sonde instruments operated as expected and there were no data gaps during the Monitoring Period.

2.2.1 Temperature

The daily average and maximum water temperature data collected at the Mongaup Falls monitoring station are presented in Figure 3. Maximum daily temperature during the Monitoring Period ranged from 13.0 ^{0}C on October 31 to 22.5 ^{0}C on July 22.

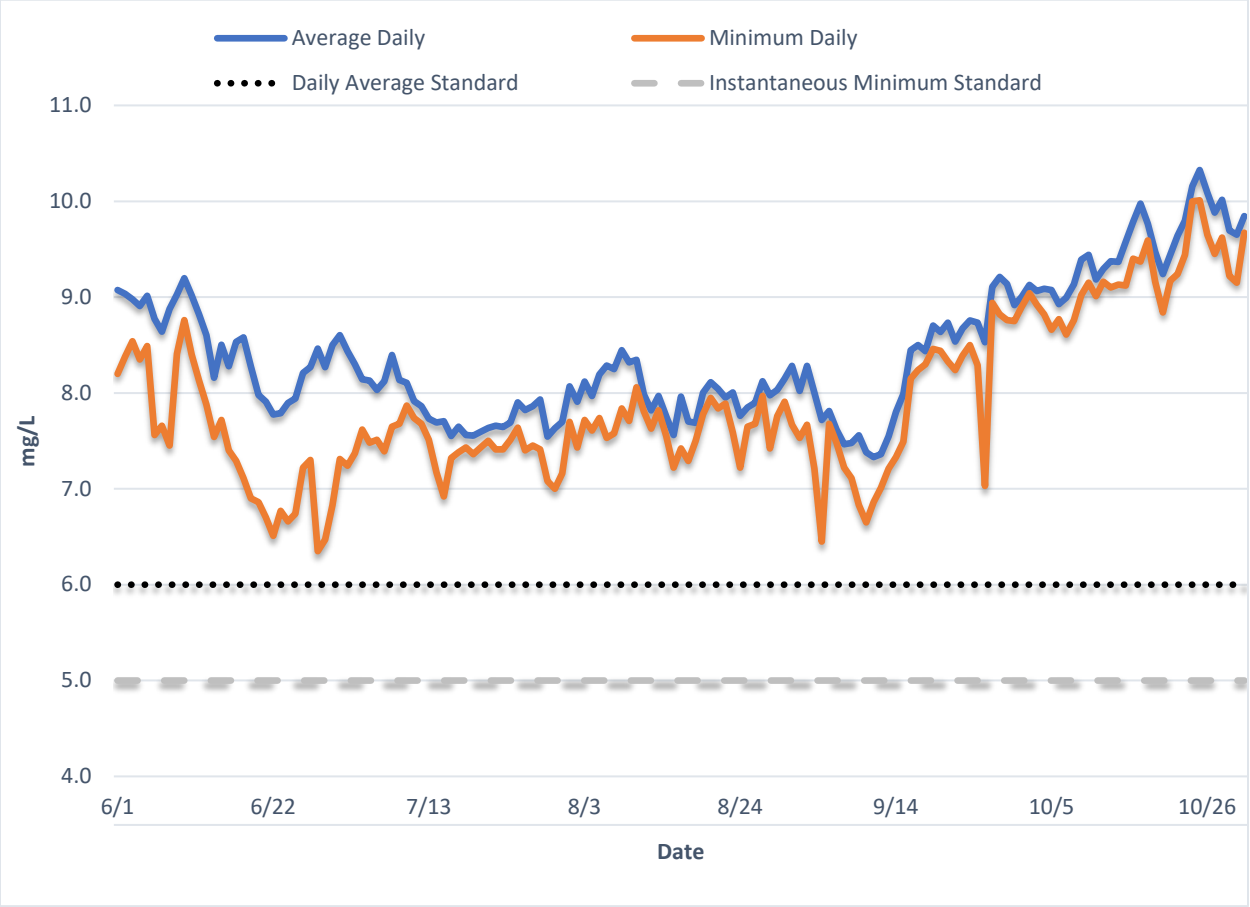
Figure 3. Water temperature at Mongaup Falls monitoring station, June 1 – October 31, 2023.



2.2.2 Dissolved Oxygen

Figure 4 displays the daily average and minimum instantaneous DO data collected at Mongaup Falls during the Monitoring Period. During the Monitoring Period, there were zero instances when the DO concentration dropped below the daily average or instantaneous minimum standards.

Figure 4. Dissolved oxygen concentration at Mongaup Falls monitoring station, June 1 – October 31, 2023.



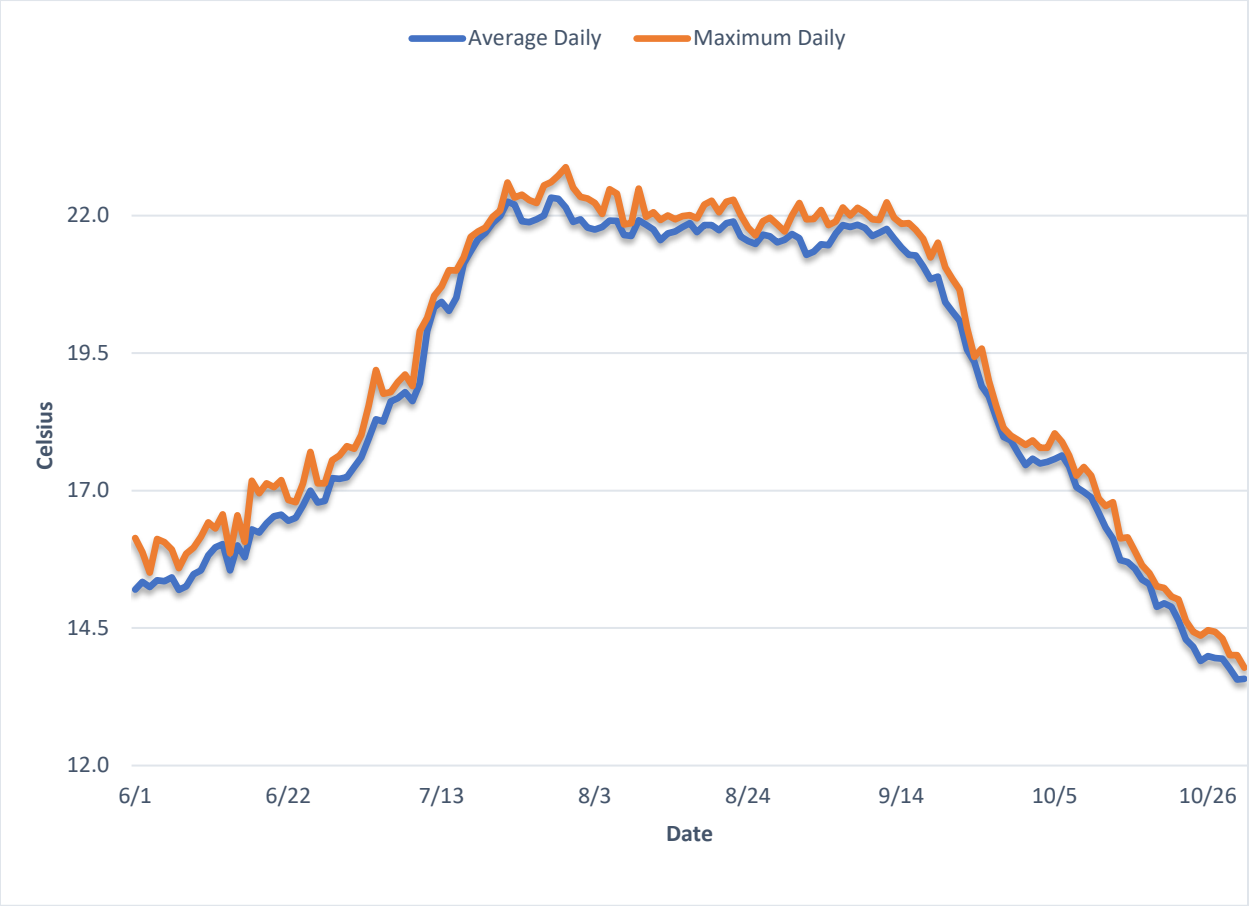
2.3 Rio

USGS Gauge 01433500 is located immediately downstream of the confluence of the powerhouse tailrace and the Mongaup River. The Rio gauge operated as expected and there were no data gaps during the Monitoring Period. The three-parameter gage (DO, water temperature, and discharge) is set up to provide real-time alerts (for example, DO levels declining below 5.5 mg/l) to Eagle Creek staff so that any necessary timely changes in Project operations can be made to maintain water quality conditions in this reach of the Mongaup River.

2.3.1 Temperature

The daily average and daily maximum water temperature data collected at the Rio monitoring station are presented in Figure 5. Maximum daily temperature during the Monitoring Period ranged from 13.8 ^{0}C on October 31 to 22.9 ^{0}C on July 30.

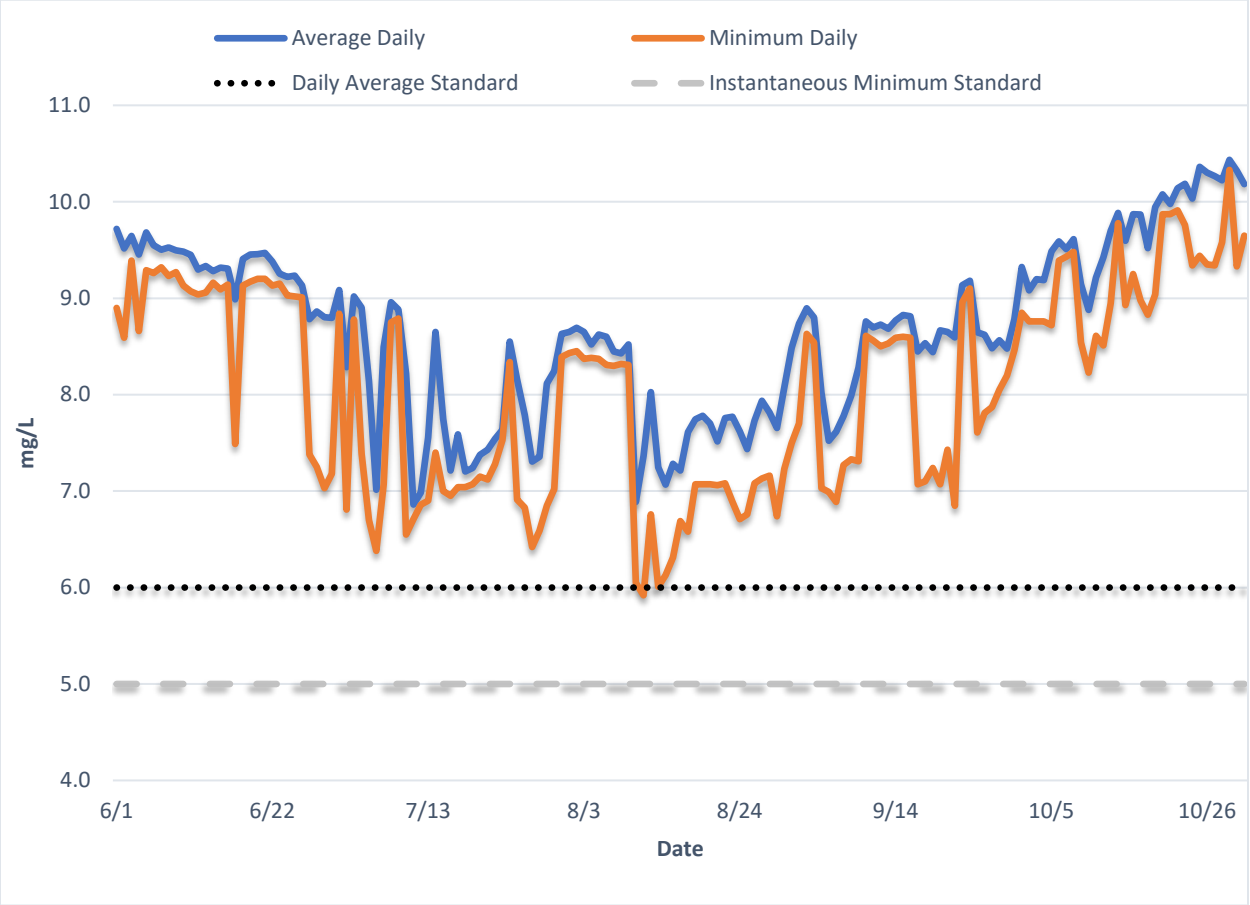
Figure 5. Water temperature at Rio monitoring station, June 1 – October 31, 2023.



2.3.2 Dissolved Oxygen

The daily average and minimum instantaneous DO, based on continuous data collected at the Rio monitoring station, are presented in Figure 6. During the Monitoring Period, there were zero instances when the DO concentration dropped below the daily average or instantaneous minimum standards.

Figure 6. Dissolved oxygen concentration at Rio monitoring station, June 1 – October 31, 2023.



3.0 CONCLUSIONS

At all three Projects, there were zero instances when the DO concentration dropped below the daily average or instantaneous minimum standards during the 2023 Monitoring Period.