American Rivers- Moran

American Rivers submits the attached comments on the scope of the Environmental Impact Statement to be prepared by Washington Department of Ecology for the Goldendale Energy Project.



February 12, 2021

Sage Park Department of Ecology 1250 West Alder Street Union Gap, WA 98903-0009

Submitted electronically to: <u>http://admin.ecology.commentinput.com/?id=eVi6D</u>

RE: Comments on the Scope of the Environmental Impact Statement for the Goldendale Energy Storage Project

Dear Ms. Park,

Thank you for the opportunity to provide comments on the scope of the Environmental Impact Statement to be prepared under the State Environmental Policy Act for the proposed Goldendale Energy Storage Project.

Introduction

On June 23rd, 2020, Rye Development on behalf of FFP Project 101, LLC (FFP) filed a Final License Application (FLA) to the Federal Energy Regulatory Commission (FERC) for the Goldendale Pumped Storage Project (Project). Washington State Department of Ecology (Ecology) has initiated the Washington State Environmental Policy Act (SEPA) review process with a Determination of Significance issued on January 14, 2021. Ecology has determined that "the proposed Goldendale Energy Storage Project is likely to have significant environmental impacts requiring full evaluation in an environmental impact statement (EIS)."¹ The proposed Project is a closed-loop pumped storage hydropower facility located on the Washington side of the Columbia River at River Mile 215.6 near John Day Dam. The Project would be located approximately 8 miles southeast of the City of Goldendale in Klickitat County, Washington. The Project facilities include 1) an upper reservoir consisting of a rockfill embankment dam approximately 175 feet high and 8,000 feet long, with a surface area of about 61 acres, and storage of 7,100 acre-feet (AF), 2) a lower reservoir consisting of an embankment approximately 205 feet high and 6,100 feet long, with a surface area of about 63 acres, and storage of 7,100 AF, 3) an underground water conveyance tunnel, powerhouse, and transformer cavern, and 4) a 500 kilovolt (kV) transmission line(s). The estimated energy generating capacity is 1,200 megawatts (MW).

American Rivers (AR) offers the following comments in response to Ecology's notice soliciting scoping comments for the Goldendale Energy Storage Project issued on January 14th, 2021.

¹ Washington Department of Ecology (January 14, 2021), Environmental Review: Scoping. Retrieved from https://ecology.wa.gov/Events/SWM/Goldendale-Energy/Goldendale-Energy

Interest of American Rivers

American Rivers (AR) is a 501(c)(3) nonprofit organization whose mission is to protect wild rivers, restore damaged rivers, and conserve water for people and nature. Headquartered in Washington, DC, AR has offices across the country and more than 300,000 members, supporters, and volunteers, including many of whom live in the Columbia River Basin states of Washington, Oregon, Idaho, and Montana. AR has been working in the Pacific Northwest for nearly 30 years, and we have a strong interest in protecting and restoring the Columbia River and its tributaries for the benefit of healthy fish and wildlife populations, and human communities. Rye Development's application for a new hydropower project license directly affects the interests of AR and its participation in this process is in the public interest. AR has been engaged in the proposed Project since 2018.

American Rivers appreciates the opportunity to provide these comments to Ecology for the purposes of drafting a comprehensive EIS which examines possible significant and adverse impacts resulting from the construction and operation of the Project.

Comments

American Rivers recognizes the importance of energy storage and grid resilience in meeting our nation's clean energy goals. We also recognize the significant value of irreplaceable tribal cultural resources within the proposed Project area as well as several probable impacts to water resources and wildlife. The FLA, its accompanying additional information provided by Rye Development (Rye), and Rye's record of communication with affected tribal communities leave room for concern that the Project poses an uncertain benefit to grid resilience while posing detrimental and unavoidable environmental and cultural concerns. AR holds concerns regarding the Project's potential to destroy irreplaceable cultural resources; its impacts on water quality and quantity; management of the contaminated West Surface Impoundment and surrounding contaminated sites; its impacts on terrestrial and aquatic wildlife; and the economic and energy generating viability of the Project.

While Ecology outlines some of these areas of concern in its scoping notice, AR has not found the license application materials to clearly identify sufficient plans for avoiding or mitigating Project impacts. Further, on December 17, 2020, FERC issued its Notice of Application Accepted for Filing and Soliciting Motions to Intervene and Protests which states that "The application is not ready for environmental analysis at this time."² Significant additional information is necessary to properly inform this licensing process. While we agree that environmental analysis is premature, the abundance of resource-related concerns and the controversial nature of the Project warrant a Determination of Significance and the preparation of an EIS for this Project. We also agree with Ecology's Determination of Significance which states, "The Department of Ecology has determined that the project will likely result in

² FERC (December 17, 2020), Notice of Application Accepted for Filing, In FERC Docket No. 14861

significant adverse environmental impacts."³ Our aforementioned areas of concern are detailed further hereafter.

I. Impacts to Native American archaeological and cultural resources

AR asserts that the entities most qualified to address tribal cultural resources are the sovereign Tribal Nations themselves. AR does not speak on behalf of tribes and instead respects and reaffirms their concerns regarding the threat to their cultural resources and lifeways. Rye's FLA affirms that multiple culturally significant sites have been found within the Project boundary. Therefore, comprehensive cultural resource identification surveys, as well as non-disturbance and/or mitigation plans must be completed prior to the issuance of an EIS.

According to an archeological resource survey conducted in 2019 by the Confederated Bands and Tribes of Yakama Nation (Yakama Nation) and included in Appendix G of Rye's FLA, the proposed development of the Project threatens multiple culturally significant resources including archeological, ceremonial, burial petroglyph, monumental and ancestral use sites located both adjacent to and within the Project area. Page 5 of Appendix G states,

...previous cultural resources surveys have identified archaeological sites in and around the Project area, and these are described in more detail in Section 2.2.3. In addition, the Project received a comprehensive archaeological resources survey performed by the Yakama Nation in 2019. The existing documentation suggests that the area includes sensitive archaeological resources. [Washington State Department of Archaeology and Historic Preservation] has indicated that there are recorded archaeological sites in the general area and that the area's landforms and environment have the potential to contain archaeological resources.⁴

The Confederated Tribes of the Umatilla Indian Reservation (CTUIR) has also stated that "the proposed undertaking is within a historic property of cultural and religious significance." Much of CTUIR's communications with Rye have been kept confidential to protect tribal cultural resources, but the tribe has stated that they intend to undertake a cultural resources survey of the Project area. In addition, on October 16, 2020, the Nez Perce Tribe requested in a letter to FERC that an ethnographic study be conducted to identify any "Nez Perce-specific resources" within the project area.⁵ The CTUIR survey and Nez Perce Tribe study have not yet been conducted. Any spiritual, cultural, or religious resources significant to either tribe should be identified, and a non-disturbance plan should be developed before an EIS is prepared.

https://fortress.wa.gov/ecy/ezshare/swm/GoldendaleEnergy/SEPA-DSform.pdf

⁴ FFP Project 101, LLC (June 23, 2020), Final License Application, Appendix G: Historic Properties Management Plan, p. 5. Retrieved from <u>https://www.ryedevelopment.com/wp-</u>content/uploads/2018/09/Goldendale-FLA Appendix-G HPMP.pdf

³ Washington Department of Ecology (January 14, 2021), Determination of Significance and Request for Comments on Scope of Environmental Impact Statement. Retrieved from:

⁵ Letter from Patrick Baird to FERC (October 16, 2020). In FERC Docket No. 14861

Rye does not have a history of acting in good faith with the affected tribes, particularly the Yakama Nation, who has also opposed previous iterations of this Project. In a February 21, 2019, letter to FERC, Yakama Nation writes,

The Yakama Nation does not believe that Rye Development conducted the preapplication in a good faith effort. This is the first time that the Yakama Nation has been afforded the opportunity to read any preliminary studies conducted by Rye Development. Nor were we aware that a draft Historic Properties Management Plan was being drafted as part of this document.⁶

Additionally, the Nez Perce Tribe was not made aware of the project until September 22, 2020 – more than two months after FERC filed its Notice of Application Tendered for Filing with the Commission and Soliciting Additional Study Requests. In order to move forward in good faith and sponsor meaningful consultation with affected tribes, Rye must engage in and/or complete the necessary archeological and ethnographic studies prior to the preparation of an EIS. AR believes that Rye has a responsibility to ensure a good faith relationship with Yakama Nation, CTUIR, the Nez Perce Tribe, and any other affected sovereign tribes.

Due to the strong opposition of the Yakama Nation and at least two outstanding and necessary tribal cultural resource studies (those of CTUIR and the Nez Perce Tribe), AR is profoundly concerned about the suitability of the Project's location and encourages Ecology to fully explore alternatives beyond those provided in the FLA which are limited to changes in reservoir storage capacity. The direct, indirect, and cumulative consequences of destroying cultural, religious, and spiritual sites, and impeding tribal peoples' accessibility to foods and medicines due to Project construction and operation are significantly harmful. Thus, an EIS is warranted in order to sufficiently evaluate these impacts and potential alternatives to the Project. These siting concerns are of utmost importance.

II. Impacts to water quality and aquatic resources

The Project's probable impact to water quality and quantity in and around the Columbia River is of concern. FERC's Scoping Document 1 (SD1) indicates Rye's intended protection and enhancement measures which would "avoid or minimize effects on fish, aquatic habitat, and other aquatic resources," one of which suggests to "avoid construction within aquatic habitat wherever possible (including intermittent/ephemeral streams and stock ponds)."⁷ However, the upper reservoir is slated for construction atop two ephemeral streams (S7 and S8) and one ephemeral pond (P2). According to Appendix B of the FLA,

⁶ The Confederated Tribes and Bands of the Yakama Nation (February 21, 2019), Comment to FERC. In FERC Docket No. 14861

⁷ FERC (October 29, 2020), Scoping Document 1 for the Goldendale Pumped Storage Project, P-14861-002, p.11. In FERC Docket No. 14861

Based on the observations described above from field investigations conducted in May 2019, ERM identified one wetland and six waterbodies existing within the study area. Two of the six waterbodies within the study area, S7 and S8 are likely jurisdictional waters of the U.S. as they connect to perennial streams downstream of the project area and therefore are subject to regulation under Section 404 of the federal Clean Water Act.⁸

Additionally, Exhibit E at 13 of the FLA states,

Construction of the upper reservoir will permanently impact approximately 890 linear feet of stream S7, 75 linear feet of stream S8, and the entirety of pond P2 (0.03 acre).⁹

The affected ephemeral streams are tributaries to Swale Creek, a perennial, salmon-bearing tributary to the Klickitat River – 10.8 miles of which was federally protected under the Wild and Scenic Rivers Act in 1986. It is important for Ecology to know that under Section 7(a) of the Wild and Scenic Rivers Act,

The Federal Power Commission [FERC] shall not license the construction of any dam, water conduit, reservoir, powerhouse, transmission line, or other project works under the Federal Power Act, as amended, on or **directly affecting** any river which is designated in section 3 of this Act as a component of the national wild and scenic rivers system... [emphasis added]¹⁰

Destroying sections of tributaries to Swale Creek has the potential to alter instream flows, which could have long-lasting impacts on salmon spawning, rearing and migration, domestic and agricultural water supply, terrestrial wildlife habitat, stock watering, and aesthetics and recreation well downstream of the Project reservoir. According to a 2009 Riparian Vegetation Assessment of Little Klickitat River and Swale Creek (WRIA 30), "the lower reach of Swale Creek (within Swale Canyon) is on Washington State's list of impaired water bodies (303(d)) as Category 5 for water temperature."¹¹ Reducing instream flow in a semi-arid basin like the Swale Creek basin, which receives minimal rainfall and incurs high summer air temperatures, can have drastically negative impacts on water temperature. This, in turn, poses a great risk to salmonids at all life stages. Additionally, surface water from Swale Creek is used for irrigation in the

⁸ FFP Project 101, LLC (June 23, 2020), Final License Application, Appendix B: Wetlands and Waters Delineation Report, p. 14. Retrieved from <u>https://www.ryedevelopment.com/wp-</u> <u>content/uploads/2018/09/Goldendale-FLA_Appendix-B_Wetland-Delineation.pdf</u>

 ⁹ FFP Project 101, LLC (June 23, 2020), Final License Application, Exhibit E: Environmental Report, p. 13. Retrieved from <u>https://www.ryedevelopment.com/wp-content/uploads/2018/09/7_Goldendale-FLA_Exhibit-E.pdf</u>

¹⁰ Wild and Scenic Rivers Act, Public Law 90-542; 16 U.S.C § 1271 et seq. (1968)

¹¹ Germiat, S. (2009, June 30). *Riparian Vegetation Assessment: Little Klickitat River and Swale Creek*. Retrieved from: <u>https://www.klickitatcounty.org/DocumentCenter/View/165/Riparian-Vegetation-Assessment---Little-Klickitat-River-and-Swale-Creek---June-2009-PDF</u>

Goldendale area.¹² The Klickitat River Salmon and Steelhead Production Plan prepared in 1990 lists preventing further degradation of summer flows in the Swale Creek drainage as a habitat protection objective which would also serve to prevent negative impacts to agriculture and irrigation.¹³

More of these impacts are detailed in the November 9, 2020, Columbia Riverkeeper et al. letter to Ecology regarding Clean Water Act 401 Water Quality Certification. In its EIS, Ecology must analyze the water quality issues identified in Columbia Riverkeeper et al.'s 401 certification comments (Attachment A). Aquatic studies of these ephemeral waterbodies and the potential Project impacts to downstream aquatic resources, including those of the Klickitat River which are protected under the Wild and Scenic Rivers Act, must be conducted, and Ecology should explore any instream flow rights that may pertain to Swale Creek or its downstream waterbodies. The results of these studies should then guide the creation of appropriate avoidance and/or mitigation plans.

Rye also estimates the need to draw approximately 7,640 acre-feet of water from the Columbia River for initial fill of both reservoirs and 360 acre-feet per year to account for "evaporation and leakage."¹⁴ This is contradictory to the figures given in both the FLA's Exhibit E at 14 (9,000 acre-feet for initial fill and 390 acre-feet per year for maintenance fills) and the SEPA checklist submitted by Rye in July 2016 (7,640 acre-feet for initial fill and 260 acre-feet for maintenance fills); therefore, clarification by Rye is necessary.¹⁵ The FLA further contradicts itself when referring to potential water losses from the two reservoirs. Exhibit B accounts for losses attributed to "evaporation and leakage" with seepage estimates of 100 acre-feet per year.¹⁶ Exhibit E states, "the reservoirs will be lined so that the reservoirs will not leak, therefore any losses are associated with evaporation."¹⁷ Seepage from the reservoirs is reasonably foreseeable, even with lining, and given this, Rye should factor seepage into conservative fill estimates.

AR also holds concerns related to the water rights which Rye proposes to use for reservoir fill. In its SEPA checklist, Rye states, "Initial fill water and periodic make-up water for the Project will be purchased from Public Utility District No. 1 of Klickitat County, Washington (KPUD), who owns an existing water right and will provide the water via an existing conveyance system adjacent to the proposed Project."¹⁸ After reviewing the FLA's Appendix K and the enclosed Cliffs Comprehensive Water System Plan, we are unsure of whether or not KPUD's existing water rights allow for the withdrawal of the quantity of Columbia River water necessary for reservoir fill within Rye's estimated time frame (6 to 12 months, as stated in FLA Appendix B). For example, Table 4-3 of the Cliffs Comprehensive Water System Plan included in Appendix K indicates that the proposed total allowable consumptive water quantity is 4, 851 acre-feet per

http://docs.streamnetlibrary.org/Subbasin Plans/Columbia Gorge/Klickitat90.pdf

¹² Confederated Bands and Tribes of the Yakama Nation, Washington Department of Fisheries, & Washington Department of Wildlife. (1990). *Klickitat River Subbasin Salmon and Steelhead Production Plan*. Washington. Retrieved from

 ¹³ Confederated Bands and Tribes of the Yakama Nation et al. Klickitat River Subbasin Plan, p 17.
 ¹⁴ FFP, Exhibit B, p. 7

¹⁵ FFP Project 1010, LLC (July 2016), SEPA Environmental Checklist, p. 14. Retrieved from: <u>https://fortress.wa.gov/ecy/ezshare/swm/GoldendaleEnergy/SEPAChecklist.pdf</u> ¹⁶ FFP, Exhibit B, p. 7

¹⁷ FFP, Exhibit E, p. 14

¹⁸ FFP, SEPA Environmental Checklist, p. 5

year.¹⁹ This is almost 3,000 acre-feet less than what Rye states is needed for initial reservoir fill. If the quantity of water allowable for municipal purposes is not enough for initial fill of the reservoirs, AR understands that leasing water from Lake Roosevelt at Grand Coulee Dam could be an option for Rye. If this is accurate, Ecology will need to demonstrate that water from Lake Roosevelt is lawfully available for this intended use, and Rye must be transparent with any plans to lease water from Lake Roosevelt and the costs associated with this water lease. AR also understands that at least a portion of KPUD's water rights is held in the State's water right trust program. If water from this trust is used for the Project, Ecology should ensure that any and all necessary processes which determine extent and validity of the water rights are executed in compliance with state law. We encourage Ecology to closely examine KPUD's water rights and allocated uses as part of an EIS.

Further, the FLA does not provide sufficient and specific methods or proposed materials which would prevent the seepage of water from the reservoirs into groundwater or into nearby wind turbine facilities nor does it provide a comprehensive water quality management plan which would monitor water quality in the reservoirs and set threshold criteria and reporting standards. Rye makes mention of a Reservoir Water Quality Monitoring Plan (WQMP) which will be developed in consultation with Ecology and will "ensure that dissolved solids, nutrients, and heavy metals in the Project reservoirs do not rise to concentrations that could adversely affect aquatic life and wildlife."²⁰ This WQMP must be developed and approved by Ecology prior to the development of an EIS in order to sufficiently explore Project impacts and the effect of proposed mitigation measures on those impacts.

III. Contaminated site management

Portions of Project infrastructure, including the lower reservoir, are slated for construction atop the site of the retired Columbia Gorge Aluminum (CGA) smelter, which is now a Resource Conservation and Recovery Act contaminated site. According to SD1, "Specifically, the lower reservoir and new water fill pipeline would be located within the footprint of Solid Waste Management Unit (SWMU) number 4 also known as the West Surface Impoundment," which contains "approximately 89,000 cubic yards of sludge primarily composed of alumina, dust, and particulates from wastewater and residual waste generated by plant emission control systems."²¹ The consequences of Project construction without an exhaustive cleanup plan developed in collaboration with and approved by Ecology could be significant for Columbia River surface water and groundwater.

In a letter from FERC to Rye on July 23, 2020 (Schedule B AIR), FERC outlined four deficiencies in the FLA related to groundwater and soil contamination that were specifically requested by FERC in response to the Draft License Application (DLA).²² Rye responded to the

¹⁹ John Grim & Associates (June 2010), Cliffs Comprehensive Water System Plan, p. 37. Retrieved from: <u>https://www.ryedevelopment.com/wp-content/uploads/2018/09/Goldendale-FLA_Appendix-K_KPUD-Letter.pdf</u>

²⁰ FFP, Exhibit E, p. 18

²¹ FERC, Scoping Document 1, p.8-9

²² FERC (July 23, 2020), License Application Deficiencies, Request for Additional Information, and Response to Request for Waiver of Regulations. In FERC Docket No. 14861

Schedule B AIR and included more detailed plans for the removal and disposal of contaminated materials within the Project area than were originally provided within the DLA and FLA. Specifically, the response to the Schedule B AIR states,

...the Applicant will prepare a Hazardous Materials Management Plan (HMMP) to govern all construction activities that require disturbance of the subsurface...The HMMP will be prepared in consultation with Ecology, NSC, and LMCO such that the HMMP reflects the current knowledge at the site as well as being consistent with the plans and requirements of the regulatory stakeholders and the landowner.²³

While an intention to create this HMMP is mentioned, AR maintains that the HMMP must be developed and approved by Ecology before an EIS is prepared in order to sufficiently examine Project impacts and the effect of proposed mitigation measures on those impacts. A mutually satisfactory plan for managing the cleanup of contaminated sites in critical.

Additionally, AR has not found record of meaningful communication between Rye and Ecology. In FERC's Schedule B AIR, FERC specifically requests from Rye,

...please revise Exhibit E to include an analysis of how project construction and operation would or would not affect [the Solid Waste Management Unit (SWMU) 13 – West SPL Storage Area, the ditch on the southern end of SWMU 13, and WMU 19 – Plant Construction Landfill] sites. This information should be developed in consultation with Washington DOE. Your response should include documentation of the consultation, any recommendations and comments provided by the Washington DOE on your proposal, and any recommendations you have considered but rejected and the basis for such rejection.²⁴

Rye replied, "Consultation to date with Ecology is documented in Exhibit E section 6.3."²⁵ In reviewing the revised Exhibit E section 6.3, AR does not find any mention of consultation beyond communications related to the Prospective Purchaser Consent Decree, indicating a lack of consultation with Ecology regarding FERC's requested clarifications. Further, according to the 2014 Agreed Order No. DE 10483 issued by Ecology, requirements for clean-up of the CGA site include the development of a Remedial Investigation Work Plan, a Remedial Investigation/Feasibility Study, and a Draft Cleanup Action Plan which would be finalized by Ecology. FERC's SD1 mentions, "As of the date of this SD1, the Remedial Feasibility Study to identify cleanup alternatives and Draft Cleanup Plan has yet to be completed."²⁶ AR maintains that these requirements must be finalized before an EIS is prepared. Rye must prioritize consultation with Ecology and begin immediate development of contaminated site management plans prior to the preparation of an EIS.

²³ FFP Project 101, LLC (November 20, 2020), Response to the Commission's request for additional information, p. 19-20. In FERC Docket No. 14861

²⁴ FERC, Request for Additional Information, p. B-3

²⁵ FFP, Response to the Commission's request for additional information, p. 4

²⁶ FERC, Scoping Document 1, p. 8

IV. Impacts to terrestrial and aquatic wildlife

Potential Project impacts to both terrestrial and aquatic wildlife, some of which are outlined in Exhibit D of Rye's FLA, are certainly significant in nature and should be explored during preparation of an EIS. Both construction and operation of the Project stand to impact migratory and resident birds, raptors, bats, and several fish and amphibian species through the destruction or disruption of habitat, construction of attractant waterbodies, and placement of attractants in close proximity to existing windfarms.

The construction of both the upper and lower reservoirs is likely to attract migratory and resident birds and bats to an area in which an active wind farm operates (Tuolumne Wind Project Authority (TWPA) wind farm owned by Turlock Irrigation District (TID)), increasing the risk of avian and bat mortality caused by collisions with wind turbines. In a May 28, 2019, letter to FERC from Washington Department of Fish and Wildlife (WDFW), the department writes, "The new source of water will attract waterfowl, bats and bald eagles (*Haliaeetus leucocephalus*), putting them at a high risk of negatively interacting with wind turbines; consequently, increasing wind turbine mortality rates on them."²⁷ While Rye maintains a lack of responsibility for the impacts to avian species due to injury or mortality from interaction with the wind turbines, the potential of Project development to increase these impacts is grounds for the exploration of geographic alternatives.

In addition to the potentially lethal impacts of attracting greater numbers of birds, the reservoirs are also likely to impact the laminar flow of air around the TWPA which has negative implications for raptors including the golden eagle. The United States Fish and Wildlife Service (USFWS) wrote in a March 3, 2020, letter to FERC,

Currently golden eagles appear to have a difficult time navigating the wind currents affected by existing wind power infrastructure near the project area. The potential of the proposed Project to further alter the remaining laminar wind currents lends credence that resulting impacts to avian species would not be exclusive to wind power production in the area.²⁸

Golden eagles are federally protected under the Bald Eagle Protection Act of 1962 and are listed as a species of concern by the State of Washington. WDFW wrote in comments to FERC on March 10, 2020, "We disagree with the applicant's opinion that the habitat near the upper reservoir is not unique or uncommon. The uniqueness of this habitat is linked to the proximity to golden eagle and prairie falcon nesting habitat."²⁹ Ecology must consider this Project area as notably valuable in terms of raptor habitat and to conduct baseline studies and provide a thorough analysis of potential impacts of Project construction and operation on raptor habitat and existence in its EIS.

²⁷ Washington Department of Fish & Wildlife (May 28, 2019), Additional study requests and comments on the PAD for the Goldendale Energy Storage Project. In FERC Docket No. 14861

²⁸ U.S. Fish & Wildlife Services (March 3, 2020), Comment to FERC. In FERC Docket No. 14861
²⁹ Washing Department of Fish & Wildlife (March 10, 2020), Comment to FERC, In FERC Docket No. 1486.

Rye's FLA makes mention of a Wildlife Management Plan which would include the acquisition of mitigation lands of similar quality for the golden eagle foraging habitat. WDFW wrote in their May 28, 2019, letter to FERC, "There will be temporary and permanent reduction of habitat as a result of the construction of the Project that should be addressed through compensatory mitigation." AR agrees that such a compensatory habitat mitigation plan should be implemented if the Project is constructed. However, Rye has yet to provide the number of acres which will be acquired and has only provided examples of potential acquisition locations. Without this information, the potential benefits of habitat acquisition cannot be fully realized. This information should be determined and reported by Rye in consultation with WDFW and USFWS as part of the preparation of an EIS.

Finally, on October 14, 2020, FERC utilized the U.S. Fish and Wildlife Service's ECOS-IPaC website to generate an official list of federally-protected threatened, endangered, candidate, and species proposed for federal protection, and designated or proposed critical habitats that may occur within the boundary of or be affected by the Project. FERC issued a memo on the same day affirming USFWS' findings as follows: "The endangered gray wolf, threatened yellow-billed cuckoo, threatened bull trout and its designated critical habitat, and proposed endangered gray wolf Western Distinct Population Segment may occur within the project boundary or be affected by the project."³⁰ AR asserts that effects of Project construction and operation on these federally threatened and endangered species be studied exhaustively during Ecology's EIS.

V. Project cost-benefit analyses and ownership

AR has concerns about the financial viability of the Project and how the proposed pumped storage Project contributes to Washington state's clean energy goals. A robust costbenefit analysis, including an analysis of daily fluctuations in Mid-Columbia (Mid-C) energy rates, should be included in Ecology's EIS to determine the economic viability of the Project and its potential economic impacts. A well-grounded understanding of the Project's viability and its possible contributions to Washington state's decarbonization objectives will determine the Project's necessity and can prevent potentially profound economic consequences in our region.

Additionally, AR asks for clarification on the energy generating capacity of the Project. According to information in SD1 and Rye's FLA, "The Project is designed to generate for 12 hours a day of full power generation, at a maximum of 1,200 MW and a minimum of 100 MW, and pump water from the lower reservoir to the upper reservoir in about 15 hours" (FLA, Exhibit B, p. 6). In order for the Project to produce the maximum amount of energy (1,200 MW), it would need to generate power (run all water from the upper reservoir to the lower) for 12 hours. In a 24-hour period, this would allow for only 12 hours of time in which all water could be pumped back into the upper reservoir. According to page 10 of SD1, "FFP states that the project pumping cycle would take approximately 15 hours to complete at a maximum pumping flow of 6,700 cfs." With the given timeframe and with Rye's apparent impression of consistent Mid-C

³⁰ FERC (October 14, 2020), List of Threatened, Endangered, Candidate, and Proposed Species Generated by ECOS-IPaC Website. In FERC Docket No. 14861

power prices, it is unclear how the Project would feasibly generate 1,200MW in a 12-hour period. A full understanding of the operations and economic feasibility of the Project is imperative.

Additionally, AR encourages Ecology to thoroughly explore a variety of viable alternatives during the environmental review process. Rye's FLA fails to provide alternative Project locations or alternative project designs other than changes in reservoir capacity. A range of alternative sites should be explored, and alternative decarbonized energy storage technologies should be examined, including solar and lithium-ion battery storage – technologies that are currently being deployed to improve resilience of California's volatile power grid.

Conclusion

American Rivers has considerable concerns about the proposed Goldendale Pumped Storage Project that we have identified for Ecology to address through the preparation of its EIS. Washington state's unparalleled tribal, cultural, and natural resources are essential to this landscape and its communities. Given the severity of the likely harmful effects of Project construction and operation on irreplaceable tribal cultural resources and archeological sites, infringement on tribal peoples' access to food and medicine in the area, water quality and supply, and wildlife, American Rivers respectfully requests that Ecology thoroughly consider each of these factors as it conducts the EIS for this controversial project. American Rivers also requests that Ecology ensures that Rye has gathered all necessary and outstanding data and has included this information in its FLA prior to the preparation of its EIS. This outstanding information includes appropriate and meaningful consultation with all involved Native American tribes.

AR appreciates the opportunity to provide comments, and we thank Ecology for its review and consideration of our comments.

Respectfully submitted,

Wendy D. McDermott Director, Rivers of Puget Sound and Columbia Basin American Rivers 206-213-0330 ext. 1 wmcdermott@americanrivers.org

Appendix A

Columbia Riverkeeper et al. letter to Washington Department of Ecology regarding Clean Water Act 401 Water Quality Certification Public Comments on Free Flow Power 101, LLC Goldendale Pumped Storage Project Clean Water Act 401 Water Quality Certification (FERC No. 14861)

> Submitted on behalf of: Columbia Riverkeeper Washington State Chapter of the Sierra Club American Rivers Washington Environmental Council

> > November 9, 2020

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November 9, 2020

Director Laura Watson Washington Department of Ecology 300 Desmond Drive SE Lacey, WA 98503

Vince McGowan Water Quality Program Manager Washington Department of Ecology 300 Desmond Drive SE Lacey, WA 98503 Deputy Director Heather Bartlett Washington Department of Ecology 300 Desmond Drive SE Lacey, WA 98503

Breean Zimmerman Hydropower Projects Manager Washington Department of Ecology 1250 West Alder Street Union Gap, WA 98903

Submitted via email

RE: Public Comments on Free Flow Power (FFP) 101, LLC Goldendale Pumped Storage Project 401 water quality certification, .

Dear Director Watson, Deputy Director Bartlett, Mr. McGowan, and Ms. Zimmerman,

Rye Development (Rye), dba Free Flow Power 101, LLC, proposes the Northwest's largest pumped storage hydroelectric project along the Columbia River in Klickitat County, Washington, near the John Day Dam. The Goldendale Energy Storage Hydroelectric Project (Project) threatens irreplaceable tribal cultural and religious resources, water quality, fish, and wildlife. The Project would permanently destroy large segments of unique waterbodies, including "waters of the United States," in the scenic Columbia Hills and cause downstream impacts to perennial waterbodies. The Project requires withdrawing millions of gallons of Columbia River water, threatening designated uses and impacting water quality in an already degraded river. Tribal, federal, and state fish and wildlife agencies have raised significant concerns about the Project's impacts on water quality, fish, and wildlife. Those concerns are summarized below and in exhibits. Due to the relatively early phase of FERC review, Rye is many months, if not years, away from producing studies and endeavoring to respond to the significant concerns raised.

Columbia Riverkeeper, the Washington State Chapter of the Sierra Club, American Rivers, and the Washington Environmental Council (collectively Commenters) urge the Washington Department of Ecology (Ecology) to deny Rye's proposed Clean Water Act (CWA) 401 water quality certification. Ecology should deny the certification because: (1) the application is incomplete, and (2) Rye's application fails to demonstrate the Project complies with water quality standards, including numeric and narrative standards, designated use protections, and the state's Tier II Antidegradation Policy review. Based on the impacts of Rye's "discharges" to "waters of the United States," Ecology must deny Rye's 401 certification regardless of whether the court-challenged 2020 U.S. Environmental Protection Agency (EPA) CWA 401 rules (hereafter 2020 401 rules), 85 Fed. Reg. 42,210 (July 13, 2020), remain in effect at the time Ecology acts on the 401 application. Due to the uncertain future of the 2020 401 rules, this comment details why Ecology must deny Rye's 401 certification under both the 2020 and pre-2020 401 certification rules and legal precedent (hereafter pre-2020 401 rules).

I. OVERVIEW OF THE PROJECT

The Project includes an off-stream, pumped-storage complex with an upper and lower reservoir. According to Rye, the Project consists of over 2,400 feet of maximum gross head that involve no river or stream impoundments, allowing for relatively small water conveyances. Other features include an underground water conveyance tunnel, underground powerhouse, 115 and 500 kilovolt transmission line(s), a substation/switchyard, and other appurtenant facilities. *See* Goldendale Pumped Storage Project CWA 401 Certification Application at 1 (June 23, 2020). Rye would site the Project's lower reservoir on lands that previously housed the CGA smelter (also known as Harvey Aluminum, Martin Marietta Aluminum, Commonwealth Aluminum, or Goldendale Aluminum), including contaminated lands and groundwater. *Id.* at 2.

The Project is expected to require 9,000 acre feet of Columbia River water for the initial fill and an additional 390 acre feet per year to offset evaporative losses. Goldendale Energy Storage Final FERC License Application, FERC Project No. 14862 (FLA) at 14.

To construct and operate the reservoirs, the Project would impact ephemeral streams, ponds, intermittent streams, and a seep. Rye's consultant, ERM, "delineated two ephemeral streams, two ponds, one intermittent stream and one seep within the study area (Figure 4-1)." FLA Appendix B at 10. Rye's FERC application states:

Based on the observations . . . from field investigations conducted in May 2019, ERM identified one wetland and six waterbodies existing within the study area. Two of the six waterbodies within the study area, S7 and S8 are likely jurisdictional waters of the U.S. as they connect to perennial streams

downstream of the project area and therefore are subject to regulation under Section 404 of the federal Clean Water Act. The remaining four waterbodies and one wetland are likely not jurisdictional waters of the U.S because they appear to be isolated and do not connect to the Columbia River.

FLA Appendix B at 14. The FLA describes how construction and creation of the reservoirs would impact the "waters of the United States" (WOTUS) and non-federal jurisdictional waters.

Construction of the upper reservoir will permanently impact approximately 890 linear feet of stream S7, 75 linear feet of stream S8, and the entirety of pond P2 (0.03 acre). An additional 800 linear feet of stream S8 will be temporarily impacted through construction of the temporary construction laydown area.

FLA Exhibit E at 13. The FLA, Exhibit E, also describes direct impacts to what Rye calls "non-jurisdictional" waters, referring to non-federal jurisdictional waters. The FLA and 401 application do not address the legal definition of "water of the state" and analyze state jurisdiction, an analysis relevant under the pre-2020 401 rules.

Rye chose to site the upper reservoir within and directly adjacent to an existing wind turbine complex. Id. at 5 (Figure 2.1-1A). The upper reservoir and the 62-wind-turbine complex, are located on land that is leased by the Tuolumne Wind Project Authority (TWPA) and contains TWPA's wind turbines, which TWPA uses to supply energy and capacity to the Turlock Irrigation District (TID). TID is an irrigation district organized under the laws of the State of California (California Water Code §§ 20500-29978) and supplies electric power and energy to the residents and businesses within its service area. See Turlock Irrigation District, Comment to FERC, (Mar. 11, 2020), In FERC Docket No. 1486 (Exhibit 6). TID raised five concerns regarding the Project. Specifically, TID raised concerns that the Project would: (1) redirect the wind used by the turbines, which would reduce their energy output; (2) increase wind turbidity, which would reduce their energy output and increase wear and tear on the turbines; (3) saturate and thereby weaken the foundations of some of the turbines; (4) increase the wildlife around the turbines, which will increase animal strikes and interfere with TWPA's operations and output; and (5) interfere with the operations of the turbines' underground power lines when constructing the Project's underground components. Id. at 2–3. The concerns raised by TID are relevant to Ecology 401 certification review, which is discussed in greater detail below.

According to Rye, "[t]he Project is not expected to cause any impacts to water quality within or adjacent to the Project area, including to intermittent streams or the Columbia River." *Id.* at 3. Rye does not propose any water quality mitigation.

Rye's conclusion on water quality impacts is unfounded and does not align with the administrative record. For the reasons explained below, Rye fails to demonstrate the Project, and associated discharges to federal- and state-jurisdictional waters, will comply with water quality standards.

II. SUMMARY OF ECOLOGY'S AUTHORITY TO DENY RYE'S 401 CERTIFICATION

Under § 401(a) of the CWA, "[a]ny applicant for a Federal license or permit to conduct any activity . . . which may result in any discharge into the navigable water[s] shall provide the licensing or permitting agency a certification from the State in which the discharge originates . . ." 33 U.S.C. § 401(a)(1). A state's § 401 power to deny or condition federal environmental permits allows a state to influence—or simply veto—certain federal activities. *See, e.g., PUD No. 1 of Jefferson County v. Washington Dept. of Ecology,* 511 U.S. 700, 712 (1994) (holding that states have authority to restrict federal activity pursuant to § 401(d)); *S.D.Warren Co. v. Maine Bd. of Environmental Protection,* 547 U.S. 370 (2006) (noting that states have the "primary responsibilities and rights . . . to prevent, reduce, and eliminate pollution.").

The purpose of § 401 is to give states a measure of control over federally permitted projects within their jurisdiction that may harm water quality. *S.D. Warren Co.,* 547 U.S. at 380 (citing S. Rep. No. 92-414, p. 69 (1971) (provision must have "a broad reach" if it is to realize the Senate's goal: to give states the authority to "deny a permit and thereby prevent a Federal license or permit from issuing to a discharge within such State."). Because the Rye's project will discharge into waters of the United States, it requires a permit from FERC, and such permit cannot be issued without the required water quality certification from Ecology. *See City of Fredericksburg v. FERC*, 876 F.2d 1109, 113 (4th Cir. 1989).

Under U.S. Supreme Court precedent, arising in a case argued by Ecology, § 401 authority is broad, and it allows a state agency to condition or deny a project based on *any* adverse impact to water quality—not just the discharge that triggers § 401 oversight. *PUD No. 1*, 511 U.S. at 710-13 ("[O]nce the threshold condition, the

existence of a discharge, is satisfied . . . the certifying state or tribe may consider and impose conditions on the project activity in general, and not merely on the discharge, if necessary to assure compliance with the CWA *and any other appropriate requirement of state or tribal laws*"). The *PUD No. 1* holding also confirms that § 401 authority may be used to prevent or mitigate violations of *all* the elements of state water quality standards—not just numeric criteria. 511 U.S. 700 at 714-15.

Washington has adopted water quality standards to protect "public health and public enjoyment of the waters and the propagation and protection of fish, shellfish, and wildlife." WAC 173-201A-010(1). Surface waters are protected by "numeric and narrative criteria, designated uses, and an antidegradation policy." *Id.* "Surface waters of the state include lakes, rivers, ponds, streams, inland waters, saltwaters, wetlands, and all other surface waters and water courses within the jurisdiction of the state of Washington." WAC 173-201A-010(2).

Ecology's water quality certifications are issued as administrative orders under Washington State's Water Pollution Control Act, 90.48 RCW. The goal of the act is to:

maintain the highest possible standards to insure the purity of all waters of the state consistent with public health and public enjoyment; the propagation and protection of wild life, birds, game, fish and other aquatic life; and the industrial development of the state. And to that end requires the use of all known available and reasonable methods by industries and others to prevent and control the pollution of the waters of the state of Washington.

In addition to the state's Water Pollution Control Act, anyone who wishes to divert or store surface waters must get a water right permit from the state. According to Ecology's *Water Quality Certifications for Existing Hydropower Dams* manual, "flow may still be regulated under other authorities like the CWA Water Quality Certifications and CZM [Coastal Zone Management] Act." *See Water Quality Certifications for Existing Hydropower Dams* at 6. Moreover, while a hydropower project requires a state permit that is subject to SEPA (e.g., a water right or shoreline permit), the entire project, even the 401 Certification, which would be exempt, is subject to SEPA. *Id.* at 7.

On July 13, 2020, the U.S. Environmental Protection Agency (EPA) published a final rule revising the regulations implementing Section 401. Clean Water Act Section 401 Certification Rule, 85 Fed. Reg. 42,210 (July 13, 2020). As Ecology explained in comments on the draft rule, among the many flaws in the Final Rule, the EPA unlawfully

narrows the applicability of Section 401; circumscribes the scope of review of the certifying state or tribe; limits the information on the proposed federal project made available to states, tribes, and the public to inform the certification determination; restricts the conditions the state or tribe may impose to ensure state or tribal laws are met; and empowers the federal licensing or permitting agency to effectively overrule a state or tribal determination of whether such laws are met. Letter, M. Bellon, Director, Ecology to A. Wheeler, EPA, re: EPA's Proposed Rule, Updating Regulations on Water Quality Certification (Docket ID No. EPA-HQ-OW-2019-0405) (Oct. 21, 2019).

On July 21, 2020, the State of Washington, along with other states, challenged EPA's regulations as unlawful. The states' complaint alleged that the regulations are inconsistent with the CWA and EPA acted arbitrarily and capriciously when promulgated the rules. In addition, and importantly, the states also specifically challenged EPA's authority to promulgate regulations controlling the scope and process of a state's review under section 401 of the CWA. The states argue that section 401 does not grant EPA any rulemaking authority for procedures and responsibilities expressly reserved for states, and section 501(a) of the CWA limits EPA to prescribing "such regulations as are necessary to carry out [the Administrator's] functions under [the] Act." 33 U.S.C. § 1361.

Ecology may decide to limit its analysis to conform with EPA's new regulations. It could do this in two situations. First, Ecology may conclude it must acquiesce to the unlawful limits and conditions imposed by EPA's regulations and apply those regulations until they are vacated and set aside by EPA or a court. For the reasons described below, even under the 2020 401 rules, Ecology retains authority to deny Rye's 401 certification. Second, before it issues a decision in this matter, in order to comply with EPA's new regulations, Ecology may revisit its regulations, change its regulations to conform to EPA's regulations, and determine that those new state regulations are controlling for currently pending applications. In either case, because any such limitation would be inconsistent with the Ecology's authority and duty to ensure that the activity will not violate the applicable provisions of the CWA and any other appropriate requirement of state law, Ecology must expressly reserve the ability to revisit and revise the terms and conditions imposed on the Project. As it has done in past 401 Certifications, Ecology must clearly state that it may amend the Project's 401 certification in the event of changes or amendments to the state water quality, ground water guality, or sediment standards, or changes in or amendments to the state Water Pollution Control Act (RCW 90.48) or the federal Clean Water Act and implementing regulations.

Due to the 2020 401 rule's uncertain future, Commenters present arguments for denying Rye's 401 certification under both the 2020 401 rules and the pre-2020 401 rules and legal precedent.

III. ECOLOGY MUST CONSULT WITH AND ACCOUNT FOR INPUT FROM TRIBAL NATIONS

Ecology must fully account for Tribal Nations' input on Rye's proposal. Rye sited the Project in an area of incalculable significance for Tribal Nations, an area that includes multiple documented Traditional Cultural Properties (TCPs) and tribal-access agreements. Moreover, Rye has, for years, failed to change the Project's location over the objections of sovereign Tribal Nations.

The Confederated Tribes and Bands of the Yakama Nation (Yakama Nation) have opposed the Project since its inception. Yakama Nation also opposed earlier iterations of a pumped-storage hydroelectric proposed at the site.

According to the Yakama Nation, Rye's development would destroy archeological, ceremonial, burial, petroglyph, monumental, and ancestral use sites—and cause significant harm to the Yakama way of life. Letter from Yakama Nation to Erik Steimle (Feb. 14, 2018), *In* FERC Docket No. 14861 (Exhibit 10). A Yakama Nation representative explained the Tribe's opposition at a Washington State Senate hearing in early 2020:

As you're aware, the Columbia River was dammed over the last century. In doing so, that impacted many of our rights, interests and resources. All of these things have been impacted: our fish sites, our villages, our burial sites up and down the river. This is another example of energy development, development in the West, that comes at a cost to the Yakama Nation.

Courtney Flatt, OPB, *Northwest Clean-Energy Advocates Eye Pumped Hydro to Fill Gaps, with Tribes Noting Concerns* (July 27 2020) (Exhibit 9). The Project's destruction of TCPs and other impacts to Tribal Nations is relevant to Ecology's Tier II Antidegradation Review. *See infra* at Section V.A.

Rye has repeatedly misstated Yakama Nation's position on the Project, which has confused federal and state agencies, as well as public understanding of the Tribe's position. Yakama Nation in comment letters to FERC, has gone as far as to say that

Rye is not operating in good faith. A letter submitted by Yakama Nation in February 2019 states:

The Yakama Nation does not believe that Rye Development conducted the pre-application in a good faith effort. This is the first time that the Yakama Nation has been afforded the opportunity to read any preliminary studies conducted by Rye Development. Nor were we aware that a draft Historic Properties Management Plan was being drafted as part of this document.

Confederated Tribes and Bands of the Yakama Nation, Comment to FERC, (Feb. 21, 2019), *In* FERC Docket No. 1486.(Exhibit 2).

Yakama Nation's archaeological resource survey, completed in 2019, concluded that multiple sites of cultural and religious importance are located within the Project boundary.¹ According to Rye's Draft License Application, "the proposed Project area is within a NRHP-eligible [National Register Historic Properties] TCP (Traditional Cultural Property) (Push-pum) and a NRHP-eligible Multiple Property Documentation TCP (Columbia Hills) and one Archaeological District (Columbia Hills District)." FLA Exhibit E at 78. The FLA states:

> The entire Columbia Hills and the archaeological sites contained within are significant to the understanding of how Yakama people lived and utilized the land. Information yielded from 'archaeological' resources is important to Yakama elders to determine what kinds of activities took place at a specific location. It also lends itself useful in identifying what kinds of resources are present.

FLA Exhibit E at 76. While Yakama Nation has filed tribal cultural resource surveys as "confidential" with FERC, available information, including FLA Appendix G, details how the Project area's importance for tribal cultural and religious resources.

The Yakama Nation is not the only affected Tribal Nation. The Confederated Tribes of the Umatilla Indian Reservation (CTUIR) has also weighed in on the development. While letters submitted by CTUIR have been filed confidentially to protect

¹ The Yakama Nation is still in the process of completing their 2020 Cultural Resources Survey of the Project area.

tribal cultural resources,² the Tribe has publicly said that "the proposed undertaking is within a historic property of cultural and religious significance," and are poised to conduct their own cultural resources survey of the area. On October 16, 2020, the Nez Perce Tribe requested that Rye conduct an ethnographic study to identify any Nez Perce-specific resources in the Project area that could be affected by construction of the project, stating that because the Tribe did not know about the development they did not have the opportunity to submit study requests to determine detrimental impacts to their Tribe. Letter from Patrick Baird to FERC (Oct. 16, 2020), *In* FERC Docket No. 14861 & Telephone Memo from Suzanne Novak to FERC (Oct. 7, 2020), *In* FERC Docket No. 14861 (Exhibit 7). On October 29, 2020, FERC directed Rye to conduct that survey.

Both CTUIR and the Nez Perce Tribe have not been afforded the opportunity to identify tribal cultural and religious resources that may be impacted by the Project.

In addition to the cultural resources impacted within the Project footprint, Project construction and operation would impact off-site, adjacent tribal and non-tribal use of an irreplaceable cultural and historic treasure: an array of over 60 bear-paw petroglyphs on the basalt walls above the Columbia River. Located in the channel of the John Day Dam Lock, the petroglyphs are open to public viewing. Rye's application fails to mention, let alone analyze, how Project construction and operations would impact the experience of tribal and non-tribal members who view and reflect on the renowned petroglyph collection.

IV. RYE'S APPLICATION IS INCOMPLETE

Rye's application is incomplete because it has not produced a compensatory wetland or water quality mitigation plan nor completed the required Tier II Antidegradation Review analysis. Rye's failure to produce a compensatory mitigation proposal is grounds for Ecology to deny the 401 certification under both the 2020 401 rules and the pre-2020 401 rules. Under the 2020 401 rules, Rye's "discharges" would violate water quality standards in federal jurisdictional waters. *See infra* Section V. Moreover, under the pre-2020 401 rules, Ecology's scope of analysis expands to the "activities" and impacts to "waters of the state." For the reasons explained below, under

² See Exhibit 12 and 13, for historical context surrounding the treatment of Indian remains and cultural property in the United States resulting in the need for tribes to file cultural resource information confidentially.

either 401 legal regime, Ecology must deny the 401 application because it cannot certify that the "discharges" or Project complies with water quality standards absent a compensatory mitigation plan and Tier II Antidegradation analysis.

A. Rye failed to submit a compensatory mitigation plan to address water quality impacts.

According to Rye, construction of the upper reservoir will permanently destroy segments of two "likely" federal jurisdictional waterbodies: two ephemeral streams. Rye's Final License Application (FLA) to FERC states:

Two of the six waterbodies within the study area, S7 and S8[,] are likely jurisdictional waters of the U.S. as they connect to perennial streams downstream of the project area and therefore are subject to regulation under Section 404 of the federal Clean Water Act. The remaining four waterbodies and one wetland are likely not jurisdictional waters of the U.S because they appear to be isolated and do not connect to the Columbia River.

FLA, Appendix B at 14. Rye determined that the remaining four waterbodies and one wetland are not jurisdictional under federal law. The FLA fails to analyze whether the remaining four water bodies are jurisdictional under state law. For example, Rye's proposal will destroy a 0.3 acre ephemeral pond.

A compensatory mitigation plan is warranted because Rye's proposal will permanently destroy waterbodies located in a semi-arid climate and result in violations of water quality standards. Rye's FLA states:

Construction of the upper reservoir will permanently impact approximately 890 linear feet of stream S7, 75 linear feet of stream S8, and the entirety of pond P2 (0.03 acre). An additional 800 linear feet of stream S8 will be temporarily impacted through construction of the temporary construction laydown area.

FLA Exhibit E at 13. Rye deems destroying 890 linear feet of stream S7, 75 linear feet of stream S8, and the entirety of pond P2 (0.03 acre) as "relatively minor." Rye draws this conclusion by comparing stream length destroyed to overall stream length. Rye fails to address the streams' functionality after construction and the downstream water quality impacts of destroying and disturbing large sections of ephemeral streams.

Rye's FLA includes a "Wildlife Mitigation Plan." The Wildlife Management Plan, however, is not a wetland or water quality mitigation plan. Moreover, the Wildlife Management Plan fails to address the significant concerns raised by state and federal wildlife agencies about the Project's wildlife impacts.³

Ecology must deny the 401 certification because it cannot assure the "discharges" to WOTUS or broader Project impacts, including impacts to "waters of the state" will comply with water quality standards.

If Rye produces a compensatory mitigation proposal, Commenters request that Ecology reopen the comment period to provide for public input.

B. Rye's application is incomplete because it fails to adequately analyze water quality impacts from destroying and disturbing federal jurisdictional ephemeral streams and other "waters of the state."

Ecology must consider the unique water quality and habitat values of the ephemeral streams the Project will impact. "Intermittent or ephemeral streams make up a large percentage of all stream habitats and may have significant roles in spawning, foraging, refugia, and early life history habitat for many fishes." Zachary E. Hooely Underwood et al., *An Intermittent Stream Supports Extensive Spawning of Large-River Native Fishes*, Transactions of the American Fisheries Society, 426 (2018) (Exhibit 11). Rye's 401 application concludes the Project will not impact water quality or designated uses. *See* FLA Exhibit 13. The scientific literature does not support this cursory conclusion. *See* Sullivan, S. M. P., M. C. Rains, A. D. Rodewald, W. W. Buzbee, and A. D. Rosemond. 2020. *Distorting science, putting water at risk.* Science 369 (6505): 766–768 (Exhibit 17); Leslie M. Reid and Robert R. Ziemer, *Evaluating the Biological Significance of Intermittent Streams,* USDA Forest Service, Pacific Southwest Research Station" (1994) ("Intermittent channels which support distinctive riparian vegetation are most important biologically; the major biological role of smaller channels is likely to be their influence on the supply of sediment, water, and organic materials to downstream

³ The FLA describes future plans to "[m]itigate for habitat loss by conserving a compensatory mitigation parcel approved by USFWS and WDFW." FLA, Exhibit E at 48. Rye states, "The parcel will be of similar quality as the golden eagle foraging habitat impacted by the Project's permanent features. *Id.* Rye fails, however, to provide a compensatory wetland or water quality mitigation plan.

channels.") (Exhibit 18). Ephemeral streams provide important ecosystem services, particularly in the semi-arid climate encompassed by the Project area.

Rye concludes the Project's impacts to federal-jurisdictional ephemeral streams will not impact water quality based on a simplistic mathematical comparison. Specifically, Rye compares "stream length lost" to "total stream length," *see* FLA Exhibit E at 13–18, and concludes the Project will not impact water quality. This grossly over simplistic "analysis" ignores the fundamentals of limnology, ecology, and conservation biology.

The federal jurisdictional ephemeral streams (S8 and S7) are tributaries to Swale Creek, a perennial, salmon-bearing tributary to the Klickitat River. Swale Creek is listed as a Category 5 "impaired" waterbody for temperature, pH, and dissolved oxygen. See Ecology Water Quality Assessment Listing IDs 7962 (temperature); 70966 (pH); 72907 (temperature); 72913 (temperature); 77925 (dissolved oxygen). Swale Creek is also listed as Category 4C for stream flow. See Ecology Water Quality Assessment Listing ID 6206 (Exhibit 19). Studies document the important ecology and existing water quality conditions in Swale Creek. See Aspect Consulting Inc., 2011 Swale Creek Subbasin Water Level Monitoring Summary, WRIA 30 (June 29, 2011) (Exhibit 20); Watershed Professionals Network, LLC and Aspect Consulting Inc., Swale Creek Water Temperature Study (Sept. 2004) (Exhibit 21); See Aspect Consulting, Riparian Vegetation Assessment, Little Klickitat River and Swale Creek (June 30, 2009) (Exhibit 22). Rye's 401 application, and the FLA it incorporates, fail to analyze the downstream effects of reduced flow to Swale Creek, such as impacts to stream flow, temperature, pH, dissolved oxygen, and associated impacts on aquatic life and other designated uses. Instead, Rye summarily concludes the impact "to the watershed" from the upper reservoir will be minimal because the upper reservoir covers a relatively small area of the entire watershed. See FLA Exhibit E at 13. Notably, the 401 application and FLA ignore studies in WRIA 30, including specific studies on Swale Creek, as well as multiple 303(d) listings in Swale Creek. Commenters provide those studies as exhibits to this comment.

Ecology should deny the 401 certification based on Rye's woefully incomplete application.

C. Rye's application is incomplete because Rye failed to submit the analysis required under WAC 173-201A-320(4).

Ecology must conduct a Tier II Antidegradation Review. *See infra* Section V.A. Under WAC 173-201A-320(4), "[o]nce an activity has been determined to cause a measurable lowering in water quality, then an analysis must be conducted to determine if the lowering of water quality is necessary and in the overriding public interest." WAC 173-201A-320(4) puts the onus on the applicant to provide information to conduct the analysis. WAC 173-201A-320(4) states "information to conduct the analysis must be provided by the applicant seeking the authorization, or by the department in developing a general permit or pollution control program, and must include" the analysis set forth in WAC 173-201A-320(4)(a)–(b). Under WAC 173-201A-320(5), "[t]he department retains the discretion to require that the applicant examine specific alternatives, or that additional information be provided to conduct the analysis." Ecology must deny the 401 certification because Rye failed to file a complete application. *See infra* at Section V.A. (explaining that Rye's application lacks information to conduct an Antidegradation Review).

If Rye provides the required Antidegradation Review analysis, Ecology must reopen the comment period to provide for public comment on the Tier II Antidegradation Review. *See infra* Section V.A.(explaining that Ecology's 401 certification public notice did not mention Tier II Antidegradation Review, which is inconsistent with the state's Antidegradation program and agency guidance).

V. ECOLOGY CANNOT CERTIFY THE PROJECT COMPLIES WITH WATER QUALITY STANDARDS

Ecology cannot certify Rye's proposal to build the Northwest's largest pumped-storage hydroelectric development will comply with water quality standards. First, the Project will permanently destroy large sections of two federal-jurisdictional ephemeral streams, important habitat in the semi-arid Columbia Hills; the project will also destroy multiple "waters of the state," including ephemeral streams and a 0.3 acre pond.⁴ Second, the Project will create two, large reservoirs that, due to Rye's operations, will concentrate pollutants and violate state water quality standards, and potentially impact groundwater. Third, the Project will consume large quantities of

⁴ Commenters request that Ecology verify Rye's conclusions on the federal and state jurisdiction of waters impacted by the Project.

Columbia River water, exacerbating existing water quality problems in the Columbia. Rye failed to meet its burden to demonstrate Project withstands Tier II Antidegradation Policy Review, complies with numeric and narrative water quality standards, and protects designated uses. Ecology must deny Rye's 401 certification.

A. Under both the 2020 401 rules and pre-2020 401 rules, Ecology must deny the 401 certification because it fails to meet the state's Tier II Antidegradation Policy Review.

Ecology must deny Rye's 401 certification under the state's Tier II Antidegradation Policy Review. WAC 173-201A-300 states:

The purpose of the antidegradation policy is to:

(a) Restore and maintain the highest possible quality of the surface waters of Washington;

(b) Describe situations under which water quality may be lowered from its current condition;

(c) Apply to human activities that are likely to have an impact on the water quality of a surface water;

(d) Ensure that all human activities that are likely to contribute to a lowering of water quality, at a minimum, apply all known, available, and reasonable methods of prevention, control, and treatment (AKART); and (e) Apply three levels of protection for surface waters of the state, as generally described below:

(i) Tier I is used to ensure existing and designated uses are maintained and protected and applies to all waters and all sources of pollution.

(ii) Tier II is used to ensure that waters of a higher quality than the criteria assigned in this chapter are not degraded unless such lowering of water quality is necessary and in the overriding public interest. Tier II applies only to a specific list of polluting activities.
(iii) Tier III is used to prevent the degradation of waters formally listed in this chapter as 'outstanding resource waters,' and applies to all sources of pollution.

Ecology evaluates the applicability of Tier I and II under a pollutant-by-pollutant approach. Letter from U.S. Environmental Protection Agency to Ecology, "EPA Review of 2003 Water Quality Standards Regulations for Antidegradation" at 5 (May 2, 2007), http://www.ecy.wa.gov/Programs/wq/swqs/epa-antideg_policy_approval.pdf.

Ecology must conduct a Tier II Antidegradation Policy Review for Rye's proposal. See WAC 173-201A-320(2)(c) (stating "A Tier II will only be conducted for new or expanded actions conducted under the following authorizations[,]" which includes "Federal Clean Water Act Section 401 water quality certifications."). Ecology's Tier II Antidegradation guidance states: "New or expanded projects requiring a 401 certification that will potentially cause a measurable [sic] change in water quality will be required to undergo a Tier II analysis for antidegradation (for example, a new hydropower project)." *Water Quality Program Guidance Manual—Supplemental Guidance on Implementing Tier II Antidegradation*, Wash. Dept. of Ecology at 5 (Sept. 2011) (hereafter Ecology Tier II Antidegradation Guidance).

The Project will cause a measurable change in water quality, as defined in WAC 173-201A-320(3)(d), (e), and (f). Ecology, therefore, must reach a "necessary and overriding public interest determination" pursuant to WAC 173-201A-320(4) and implementing guidance. *See* WAC 173-201A-320(4) ("Once an activity has been determined to cause a measurable lowering in water quality, then an analysis must be conducted to determine if the lowering of water quality is necessary and in the overriding public interest."). Specifically, Ecology must conduct a Tier II analysis on pollutants including: temperature, pH, turbidity, dissolved gas, toxic substances, and narrative criteria (WAC 173-201A-260(2)).

Under the 2020 401 rules and pre-2020 401 rules, Ecology's review under a Tier II analysis must conclude that the lowering of water quality is not necessary and in the overriding public interest. Whether Ecology looks at the "discharges," as required under the challenged 2020 401 rules, or the "activities" (i.e., the Project), Ecology's Tier II analysis cannot conclude that the "lowering of water quality is necessary and in the overriding public interest."

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a. Once Rye files a complete application, Ecology must reopen the public comment period for the Tier II Antidegradation Review.

Commenters request that Ecology offer a public comment period on Ryes' Tier II Antidegradation Review. Ecology's 401 certification public notice is silent on Tier II Antidegradation Review. However, Ecology's Tier II Antidegradation Guidance contemplates: (1) notice of Tier II Review applicability, and (2) the opportunity for public input on the Tier II Review. Specifically, Ecology's Tier II Antidegradation Guidance states:

In accordance with section II of the rule, public involvement for the Tier II review should be included as a part of the public involvement process associated with the Ecology authorization being conducted. This means that the Tier II requirements must be adequately discussed as a part of those other public involvement mechanisms. For example, in a permit application notification, specific mention of the water body affected, the need to find that any lowering of water quality is necessary and in the public interest, and the openness to receiving public comment on these issues, would initiate the appropriate public review process for Tier II. Where an existing mechanism for public review that can be used to incorporate the Tier II review issues does not exist, Ecology will need to create one that is unique to this purpose. This can be as simple as a public notice to the local community and established interest groups.

Regardless of the mechanism or form used, the public review process should include:

• A clear statement on the need to make a Tier II antidegradation determination.

• Sufficient information to identify the water body affected, the type of action being reviewed, and the constituents of concern.

• A description of the process for reviewing and selecting the least degrading alternatives which can be feasibly implemented.

• The method by which public comments will be considered.

Ecology Tier II Antidegradation Review Guidance at 9–10. Because the 401 certification public notice did not include the requisite information, and Rye failed to produce "measurable change" analyses, Commenters request the opportunity to comment on Tier II Review in the future.

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b. Ecology must examine measurable changes in water quality.

Ecology must examine if Rye's "discharges" or, if applying the pre-2020 rules the "activities," would result in a measurable change in water quality using a pollutant-by-pollutant analysis. WAC 173-201A-320(3) defines "measurable change," stating:

To determine that a lowering of water quality is necessary and in the overriding public interest, an analysis must be conducted for new or expanded actions when the resulting action has the potential to cause a measurable change in the physical, chemical, or biological quality of a water body. Measurable changes will be determined based on an estimated change in water quality at a point outside the source area, after allowing for mixing consistent with WAC 173-201A-400(7). In the context of this regulation, a measurable change includes a:

(a) Temperature increase of 0.3°C or greater;

(b) Dissolved oxygen decrease of 0.2 mg/L or greater;

(c) Bacteria level increase of 2 cfu/100 mL or greater;

(d) pH change of 0.1 units or greater;

(e) Turbidity increase of 0.5 NTU or greater; or

(f) Any detectable increase in the concentration of a toxic or radioactive substance.

Ecology's Tier II guidances states:

There are cost and complexity issues associated with making the Tier II eligibility determination. Estimating dilution factors, collecting any necessary ambient water quality data, predicting effluent concentrations, and determining how these factors all combine to lower water quality is not a trivial undertaking. A project proponent may choose to move straight to a Tier II "necessary and overriding public interest" analysis, rather than make these eligibility determinations. This may be a cost- and time-effective strategy where there is a reasonable probability that measurable degradation will likely occur.

Ecology Tier II Antidegradation Guidance at 7. Ecology must: (1) require that Rye conduct the Tier II "measurable change" analysis, or (2) ask if Rye will choose to move straight to a Tier II "necessary and overriding public interest analysis."

For turbidity, Rye cannot evade a Tier II analysis based on the "short term exceedance" exemption. Projects that may cause short term exceedances for turbidity during inwater construction are not required to go through the Tier II Antidegradation

test if they adhere to the requirements for turbidity criteria that are described in WAC 173-201A-200(1)(e)(i) and 173-201A-210(1)(e)(i). Here, whether Ecology evaluates the Project under the 2020 or pre-2020 401 rules, the turbidity exceedances will persist beyond the "short term": the federal-jurisdictional waterbodies, S7 and S8, are permanently altered (i.e., excavated and destroyed to make way for a reservoir). In addition, under the pre-2020 rules, Rye will destroy "waters of the state," 0.03 acre ephemeral pond.

In sum, Ecology must complete the "measurable change" analyses or, alternatively, ask Rye's approval to proceed to the "necessary and in the overriding public interest" analysis.

c. Ecology should deny the 401 certification because the lowering of water quality is not necessary and in the overriding public interest.

Under both the 2020 and pre-2020 401 rules, Ecology cannot conclude that the lowering of water quality is "necessary and in the overriding public interest." The Project will further scar a landscape already significantly impacted by wind and hydroelectric energy. These comments and attached exhibits detail Rye's impacts to water quality, designated uses, and cultural resources.

As part of the "necessary and overriding public interest determination," Ecology must consider "the benefits and costs of the social, economic, and environmental effects associated with the lowering of water quality." WAC 173-201A-320(4)(A). In conducting the analysis, Ecology must consider costs of the social, economic, and environmental effects on:

• Tribes and Native Americans, including the social and economic impacts to Tribes and Native Americans: The Project would directly interfere with multiple culturally significant sites to the Yakama Nation, CTUIR, and Nez Perce Tribe. The Project would also impact tribal access. Cultural property is defined as "the tangible and intangible effects of an individual or group of people that define their existence, and place them temporally and geographically in relation to their belief systems and their familial and political groups, providing meaning to their lives." *SHERRY HUTT ET AL., CULTURAL PROPERTY LAW, at xi (2004).* Exhibits 12 and 13 detail costs to Tribal Nations and Native Americans.

- Water Quality: These comments and supporting exhibits detail water quality impacts from Rye's direct "discharges" to at least two federal jurisdictional waters: S7 and S8. Those ephemeral streams are tributaries to Swale Creek, a perennial, salmon-bearing waterbody. Ecology must consider the water quality impacts of destroying large segments of ephemeral streams, particularly streams that discharge to water-quality impaired waterbodies. Under the pre-2020 401 rules, Ecology must also consider the Project's direct and indirect impacts on "waters on the state" and the Columbia River.
- Water Quantity: The Project requires large quantities of Columbia River water. Ecology must consider the environmental costs of increased water withdrawals under current and future climate scenarios.
- Wildlife and Recreation: The Project will have significant impacts on wildlife and associated recreation. On March 10, 2020, comments to FERC, the Washington Department of Fish and Wildlife (WDFW) noted: "We disagree with the applicant's opinion that the habitat near the upper reservoir is not unique or uncommon. The uniqueness of this habitat is linked to the close proximity to golden eagle and prairie falcon nesting habitat." Comments by WDFW and the U.S. Fish and Wildlife Service (USFWS) detail the Project's impacts to wildlife, including increased mortality of bats and raptors by nearby wind turbines, and wildlife habitat. WDFW Comment to FERC, (Mar. 10, 2020), In FERC Docket No. 1486 (Exhibit 5); USFWS Comment to FERC (Mar. 3, 2020), In FERC Docket No. 1486 (Exhibit 4). Recreation organizations, including Commenters, have weighed in, raising concerns about how the Project's impacts to threatened, sensitive, or candidate species, species with intrinsic value and value for nature-based recreation. Rye acknowledges the Project area is included in the regional Columbia Hills Important Bird Area designated by the National Audubon Society. See FLA Appendix D at 2.
- Other Economic Effects: TID's comments described the Project's economic impacts to existing energy infrastructure. Turlock Irrigation District, Comment to FERC, (Mar. 11, 2020), *In* FERC Docket No. 1486 (Exhibit 6). Ecology should also analyze the economic costs associated with degraded water quality and reduced stream flows in Swale Creek.
- Other Social and Environmental Effects: Beyond impacts to wildlife, the Project will destroy segments of, and permanently alter, unique ephemeral streams and destroy an ephemeral pond. This will result in aesthetic

impacts in a landscape etched by time and reminiscent of the renowned landscape art of Georgia O'Keeffe. See Georgia O'Keeffe Museum (visited Oct. 31, 2020) (landscape art from the Southwest that bears a striking resemblance to the scenic Columbia Hills). The Columbia Hills capture the imagination of artists and inspire viewers. See Columbia Gorge Magazine (Spring 2019) (cover art capturing the Columbia Hills to the west of the Project area). As the seasons change and shadows shift, the Columbia Hills and their streams remain a revered scenic vista of Washington state.

Ecology must also consider the applicant's unsubstantiated conclusions on the Project's benefits.

First, Washington's Deep Decarbonization Analysis does not call out the Project as necessary energy infrastructure to meet the state's decarbonization goals. *See* Evolved Energy Research, Washington State Energy Strategy Decarbonization Demand and Supply Side Results (Aug. 2020) (Exhibit 14). The state's analysis is still underway and, to date, does not demonstrate a "need" for the Project. Even if large-scale pumped-storage hydroelectric power is called out as necessary to meet the state's deep decarbonization goals, it is not clear Rye's Project is necessary to meet that demand. For example, pumped storage at a different location could meet that need. Furthermore, Governor Inslee, a national climate leader, has not taken a position in favor of the Project. Rye's FLA includes "Letters of Support"; Rye did not produce a letter of support from the Governor's Office.

Ecology must consult with the Governor's Office, the Washington Department of Commerce, Ecology staff, and other experts on the state's deep decarbonization efforts to verify if Rye's alleged "benefits" pencil out.

Even if the Project would provide climate benefits, Ecology must consider: (1) the lengthy permitting and construction timeline for pumped storage in general, (2) the added complexity for Rye's Project due to scale of tribal cultural tribal resources, and (3) the need for the Project a decade or more in the future given the rapidly-changing and dynamic nature of energy markets. For example, if Ecology finds a substantial climate benefit (*i.e.*, need) in 2020 or 2021, Ecology must evaluate if that benefit remains under future energy planning scenarios (*i.e.*, 2030 and beyond).

Second, according to a third-party economic analysis, the Project cannot provide renewable energy integration and replacement capacity to support regional

decarbonization goals affordably and reliably. Anthony Jones, Critique of the Goldendale Energy Storage Hydroelectric Project, Notification of Intent (December 3, 2019) (Exhibit 15). The Rocky Mountain Econometrics analysis concludes that a combination of rising construction costs and decreasing open-market energy prices undercut Rye's claims that the project is necessary to meet the state's decarbonization goals.

Third, Ecology should evaluate the benefit of an environmental cleanup at the former CGA smelter site by evaluating the incremental *increased* benefit Rye brings to the cleanup. Whether the Project moves forward or not, state and federal law require CGA site cleanup. In turn, Ecology must evaluate the Project's benefit by comparing the baseline cleanup requirements to the "add on" cleanup Rye promises when it builds the lower reservoir. Ecology should only include the "add on" cleanup in the proverbial benefits bucket.

Finally, Rye's jobs numbers demonstrate that, while the Project will produce construction jobs, the Project supports a relatively small number of permanent jobs (20 to 30 jobs per year post-construction in Washington). See FLA Exhibit E at 85. Ecology must consider whether the 20 to 30 permanent jobs per year outweighs sweeping and permanent cultural resource and environmental impacts.

On balance, Ecology should conclude that the Project's substantial costs far outweigh the Project's purported benefits.

B. Ecology cannot certify the Project complies with numeric and narrative water quality standards.

Ecology should deny Rye's 401 certification under the 2020 401 rules and pre-2020 rules because Rye's application fails to demonstrate the "discharges" and broader "activities" will comply with numeric and narrative water quality standards. USFWS, in comments to FERC, summarizes the Project's impacts to water quality, stating:

The Service is concerned about project effects on existing populations of fish, amphibians, and other aquatic fauna and flora and the habitat that supports them We are also concerned about potential project effects on geomorphology, substrate, sediment transport, woody debris transport, streamflow regimes, flow release timing, flow fluctuation, water quality, water temperature, nutrients, and fish passage in the study area.

Letter from U.S. Fish & Wildlife to FERC, Attachment A at 4 (May 30, 2019), *In* FERC Docket No. 14861 (Exhibit 16). In the following subsection, Commenters describe why Rye's application fails to demonstrate that the "discharges" and broader "activities" comply with water quality standards. Commenters divide this analysis by waterbody type: (1) ephemeral waterbodies, (2) the Columbia River, and (3) the human-created reservoirs. Ecology must deny the 401 certification under both the 2020 401 rules or, if the 2020 rules are withdrawn or vacated, the pre-2020 rules.

a. Under the 2020 401 rules, Ecology must deny the 401 certification because Rye fails to demonstrate the "discharges" will comply with numeric and narrative water quality standards in WOTUS streams.

The Project requires "discharges" to two WOTUS streams (S8 and S7) by "point sources" (bulldozers or other construction equipment), which would violate numeric and narrative water quality standards. Rye fails to demonstrate that permanent destruction of unique aquatic habitats meets numeric and narrative water quality standards. Rye claims "[t]he Project is not expected to cause any impacts to water quality within or adjacent to the Project area, including to intermittent streams or the Columbia River." FLA Exhibit E at 15. This statement is factually inaccurate. Permanently destroying large segments of WOTUS waterbodies will impact water quality because: (1) the 890 linear feet and 75 linear feet stream segments will cease to exist, and (2) S7 and S8 will cease to function as connected, intact waterbodies that discharge to Swale Creek. In short, Rye ignores the upstream and downstream water quality impacts of ephemeral waterbody destruction.

As discussed above, *supra* at Section VI.A., Rye's application does not demonstrate that destroying large sections of WOTUS streams would comply with numeric and narrative water quality standards, including: temperature, turbidity, total dissolved gas, pH, deleterious materials (WAC 173-201A-200(4)(a)), aesthetic values designated uses and criteria (WAC 173-201A-200(4)(b)), and toxics and aesthetics criteria (WAC 173-201A-260(2)). The applicant bears the burden to demonstrate compliance.

Under the 2020 401 rules, Ecology has authority to deny the 401 certification based on "discharges" to federal jurisdictional waters. *See* 85 Fed. Reg. at 42235 (explaining "the EPA is concluding that section 401 is a regulatory provision that creates federally enforceable requirements, and for this and other reasons, its application must

be limited to point source discharges into waters of the United States."). Here, Rye fails to demonstrate point source discharges to two WOTUS waterbodies would comply with narrative and numeric water quality standards. *See supra* at Section IV.A. In turn, Ecology must deny the 401 certification.

b. If the 2020 401 rules are overturned or withdrawn, Ecology should deny Rye's 401 based on violations of numeric and narrative water quality standards in ephemeral streams and a pond that qualify as "waters of the state."

In addition to federal jurisdictional waters, the Project would destroy "waters of the state." Under the pre-2020 401 rules, Ecology may consider the Project's impacts to "waters of the state." See 2010 EPA Interim Handbook at 5 (2010) ("Note, however, that once § 401 has been triggered due to a potential discharge into a water of the U.S., additional waters may become a consideration in the certification decision if it [sic] is an aquatic resource addressed by 'other appropriate provisions of state [or tribal] law."). Like the federal jurisdictional waters, Ecology should deny the 401 certification based on the discharges' and the broader Project's violations of numeric and narrative water quality standards in "waters of the state."

c. Ecology must analyze the Project's impacts to water quality in the Columbia River.

Ecology must verify Rye's claim that the Project does not include "discharges" to the Columbia River. Ecology cannot complete its analysis under the 2020 401 rules absent a factual determination on the question of "discharges" to the Columbia.

Under the pre-2020 401 rules, Ecology must evaluate the Project's impacts to water quality in the Columbia River. *See PUD No. 1*, 511 U.S. at 710-13 ("[O]nce the threshold condition, the existence of a discharge, is satisfied . . . the certifying state or tribe may consider and impose conditions on the project activity in general, and not merely on the discharge, if necessary to assure compliance with the CWA *and any other appropriate requirement of state or tribal laws*"); *see also* RCW 90.48.422(3) (describing Ecology authority with respect to water diversions and 401 certifications). USFWS raised concerns about the impacts to water quality in the Columbia River from diverting water, stating:

Diverted flows could affect chemical constituents such as dissolved oxygen, pH, salinity, turbidity, and others. A study should be conducted to characterize water quality at different flow levels to detect changes in water chemistry that may be

caused by project construction and operation. Altered instream water temperatures can also affect oxygen concentration and availability for fish and aquatic organisms. Any changes in water temperature should also be evaluated to determine effects on aquatic organisms.

Letter from USFWS to FERC, Attachment A at 4 (May 30, 2019) (Exhibit 16). Ecology must evaluate if Rye has developed the requested study and, if not, request that Rye complete the USFWS-requested water quality analysis.

d. Ecology must consider whether the Project would violate numeric and narrative water quality standards in the Columbia in the event of reservoir failure.

Under the pre-2020 401 rules, Ecology must evaluate the Project's water quality impacts in the event of reservoir failure. The U.S. Army Corps of Engineers (Corps) raised concern about the potential for reservoir failure, stating:

[T]he Corps has concerns regarding a failure of the storage pond and if it fails will the material wash into the river. If material does wash into the river, has Rye Development evaluated the impacts of the material to impact or stop navigation or use of the John Day Lock and Dam? We would request that such failure be analyzed and addressed to ensure no impacts to either the John Day Lock and Dam or the federal navigation channel.

Letter from Corps to FERC at 1 (July 12, 2019). To date, Rye has not completed the requested analysis. Ecology must evaluate water quality impacts to the Columbia in the event of reservoir failure.

e. Under the pre-2020 401 rules, Ecology must evaluate whether the Project would violate narrative and numeric water quality standards in the human-created reservoirs.

Ecology must consider water quality in the reservoirs, which would qualify as "waters of the state" once built. See WAC 173-201A-260(3)(f) ("Numeric criteria established in this chapter are not intended for application to human-created waters managed primarily for the removal or containment of pollution. This special provision also includes private farm ponds created from upland sites that did not incorporate natural water bodies."). The Project's reservoirs do not meet the "human created waters" exemption in WAC 173-201A-260(3)(f); therefore, Ecology must certify that the water quality in the reservoirs will meet state water quality standards. For the reasons

explained below, Ecology cannot develop conditions to certify compliance and, therefore, must deny 401 certification.

The human-created reservoirs would concentrate pollutants, threatening birds that USFWS and WDFW surmise would flock to the new, large waterbody. In 2020 comments on the Project, the USFWS raised concerns about water quality in the reservoirs. USFWS's comments state:

The annual loss of water from the reservoir due to evaluation is 42-acre ft. per year. Evaporation over extended periods of time may concentrate any solutes present in the water source, potentially causing the reservoir to become toxic to terrestrial and avian wildlife utilizing the Project waters. The Applicant proposes an operational adaptive water quality monitoring management program and yet there is no apparent implementing plan in the DLA containing specific, enforceable measures. We recommend the development and implementation of a reservoir water quality monitoring and management plan to ensure the water is safe for wildlife resources. This plan should include specific methods to annually monitor levels of dissolved solids, nutrientes, and heavy metals in the project reservoirs and a schedule for annually reporting the monitoring results and anay proposed measure addressing deteriorating water quality based on monitoring results should be developed.

U.S. Fish & Wildlife Services, Comment to FERC, (Mar. 3, 2020), *In* FERC Docket No. 1486 (Exhibit 4). For purposes of 401 certification under the pre-2020 401 rules, a monitoring plan is not sufficient for Ecology to certify that the Project would not violate water quality standards. Notably, Rye acknowledges that the reservoirs would concentrate pollutants. *See* FLA Exhibit E at 15 (stating "Residence in the proposed Project reservoirs for extended periods of time may concentrate any solutes present in source waters."). However, Rye concludes that "any concentrated solutes would not impact surface waters as the Project will not discharge to any surface waters." *Id.* Rye fails to acknowledge that human-created reservoirs are (1) "surface waters" within the meaning of "waters of the state," and (2) 401 certification jurisdiction extends to water quality in the reservoirs under the pre-2020 401 rules.

Ecology must evaluate whether the reservoirs will meet narrative and numeric water quality standards. This includes groundwater standards. Under the pre-2020 401 rules, if Ecology concludes the reservoirs would violate narrative and numeric standards, Ecology should deny, rather than condition, the 401 certification. Rye's operations hinge on using the reservoirs in a way that would concentrate pollutants. Therefore, Ecology cannot develop a feasible condition to mitigate violations of numeric

and narrative water quality standards. USFW and WDFW provided detailed comments to FERC detailing how the reservoirs will attract birds, including migrating waterfowl and raptors. In turn, under the pre-2020 401 rules, Ecology must deny the 401 certification based on numeric and narrative water quality standard violations in the reservoirs, as well as protection of designated uses, described in greater detail below.

C. The Project will harm designated uses.

Under both the 2020 401 rules and pre-2020 401 rules, Ecology should deny Rye's 401 certification because Ecology cannot certify the "discharges" or broader Project would protect designated uses.

a. Under the 2020 401 rules, Ecology cannot certify Rye's discharges would protect the designated uses for federal jurisdictional ephemeral streams.

Ecology cannot certify the "discharges" would protect the designated uses for fish, wildlife habitat, aesthetic values, and water supply. Designated uses for the segments of WOTUS-jurisdictional ephemeral streams destroyed by the Project include, but are not limited to:

- salmonid spawning, rearing, and migration;
- primary contact recreation;
- domestic, industrial, and agricultural water supply;
- stock watering;
- wildlife habitat;
- harvesting; and
- aesthetic values.

See WAC 173-201A-600(1) (stating "All surface waters of the state not named in Table 602 are to be protected for the designated uses of: Salmonid spawning, rearing, and migration; primary contact recreation; domestic, industrial, and agricultural water supply; stock watering; wildlife habitat; harvesting; commerce and navigation; boating; and aesthetic values.").

Rye's "discharges" would destroy 890 linear feet of jurisdictional stream S7 and 75 linear feet of jurisdictional stream S8. These stream segments would no longer support wildlife habitat, aesthetic values, or other designated uses. *See supra* at Section IV.A. (describing the fish and wildlife habitat and water quality benefits of

ephemeral streams). Ecology must consider impacts to designated uses in the ephemeral streams and downstream, in Swale Creek, caused by the destruction of large segments of ephemeral stream.

In addition, the Columbia Hills are renowned for their scenic beauty. Rye's discharges will destroy the aesthetic values of the ephemeral streams.

The "discharges" could also impact designated uses of domestic, industrial, and agricultural water supply in Swale Creek, which is water-quality impaired for instream flow. For example, Rye will destroy over 890 feet of ephemeral stream to build the upper reservoir. This will alter the quality and quantity of water that would otherwise flow from the Columbia Hills to Swale Creek. Rye's 401 application and FLA summarily conclude that the Project will not impact instream flows in Swale Creek by comparing the size of the ephemeral streams to the watershed. This analysis is insufficient to certify protection of designated uses.

Overall, Ecology cannot certify the "discharges" comply with water quality standards for designated use protection.

b. Under the pre-2020 401 rules, Ecology must deny the 401 certification based on the Project's impacts to fish, wildlife habitat, and aesthetic values.

Under the pre-2020 401 rules, Ecology must look more broadly at the Project's impacts on designated uses. State and federal agencies have described in detail the Project's impacts on fish, wildlife habitat, and wildlife. See Exhibit 5 at 2 ("The need for compensatory mitigation is supported by the evidence of a large amount of diversity of wildlife species that potentially reside in the Project."). Rye elected to site its proposal adjacent to and, in the case of the upper reservoir, within a wind turbine complex. In multiple comments to FERC, USFWS and WDFW describe how building large reservoirs will attract birds—including threatened, sensitive, and candidate species—and, in turn, increase birds killed by the wind turbine complex. USFWS explains:

As recently as January 2020, a golden eagle wind turbine strike mortality occurred southwest of the proposed Project (Figure 1). Five additional golden eagle mortalities have been documented to the northeast of the proposed Project. Two golden eagle nests also occur within close proximity to the proposed Project. This history of mortalities shows a landscape already compromised by wind power infrastructure. Currently golden eagles appear to

have a difficult time navigating the wind currents affected by existing wind power infrastructure near the project area. The potential of the proposed Project to further the remaining laminar wind currents lends credence that resulting impacts to avian species would not be exclusive to wind power production in the area.

Exhibit 4 at 3. USFWS also notes that radio telemetry data collected in 2007 for eight months "indicates significant use of the entire project area" by golden eagles. *Id.* at 2. USFWS explains: "Since prey availability is a primary factor in governing habitat selection of golden eagles . . . the habit in the area of the proposed upper reservoir is a determining factor in golden eagle nesting preference for the area." *Id.* at 2 - 3 (internal citations omitted). The Project also threatens bats. WDFW notes:

The construction of a new body of water at the upper reservoir, will likely provide habitat for and attract insects in close proximity to wind turbines. In turn the insect[s] will attract foraging bats to the area, putting them in close proximity to the wind turbines. Bats are also attracted to water features to drink from. Bat fatalities have been found to be caused by wind turbine blade strikes and bats flying close to the turbine blades in an effort to avoid them resulting in barotrauma. There are no available bat survey data specific to the Project upper reservoir site. Bats are known to have a long life span and slow reproductive rate. Loss of large numbers of bats may have significant impacts to local or regional populations.

WDFW, Comment to FERC, (Mar. 10, 2020), *In* FERC Docket No. 1486 (Exhibit 5). USFWS and WDFW comments detail the direct and indirect wildlife-habitat impacts from the Project's infrastructure, and how the Project's location, adjacent to a large wind turbine complex, will harm threatened, sensitive, or candidate species.

Both WDFW and USFWS provided detailed recommendations for the Project's Draft License Application compensatory wildlife mitigation plan. To date, Rye has yet to produce a mitigation plan that incorporates key agency recommendations. See FLA Appendix D, *Wildlife Mitigation Plan* (June 2020). Moreover, Rye's Wildlife Mitigation Plan details voluntary measures. *Id.* at 1 ("The purpose of this draft Wildlife Management Plan (WMP) is to develop voluntary guidelines that FFP Project 101, LLC (the Applicant and eventual Licensee) will adopt to reduce impacts to wildlife (including avian species) associated with the construction and operations of the Goldendale Energy Storage Project No. 14861 (Project).").

The Wildlife Mitigation Plan fails to account for critical input from WDFW on the Draft License Application Wildlife Mitigation Plan. WDFW submitted detailed comments

on the inadequacy of the Draft License Application Wildlife Mitigation Plan. WDFW summarized its analysis, stating:

WDFW is concerned with the lack of compensatory mitigation for temporary and permanent impacts of the project to wildlife habitat discussed in the DLA and the Wildlife Management Plan (WMP) found in Appendix D of the DLA. Compensatory mitigation should be in the form of land acquisition and management of the land for wildlife resources. WDFW recommends no net loss of habitat function or values, consistent with our state's Growth Management Act.

WDFW, Comment to FERC, (Mar. 10, 2020), *In* FERC Docket No. 1486 (Exhibit 5). To date, Rye has not identified off-site mitigation, further hindering Ecology's ability to certify the Project's protection of designated uses. See FLA Appendix D at 9–10. Rye acknowledges that the Wildlife Mitigation Plan is in the early stages, stating "This draft WMP will be updated in consultation with the United States Fish and Wildlife Service (USFWS), the Washington Department of Fish and Wildlife (WDFW), and the Oregon Department of Fish and Wildlife Consultation will be ongoing throughout the licensing and license implementation phases of the Project." Overall, the voluntary Wildlife Mitigation Plan is in its infancy, a state that prevents Ecology from certifying compliance with designated uses.

VI. STATE ENVIRONMENTAL POLICY ACT

SEPA is Washington's core environmental policy and review statute. SEPA broadly serves two purposes: first, to ensure that government decision-makers are fully apprised of the environmental consequences of their actions and, second, to encourage public participation in the consideration of environmental impacts. *Norway Hill Preservation and Prot. Ass'n v. King Co*, 87 Wn.2d 267, 279 (1976). For decades, SEPA has served these purposes effectively, requiring full environmental reviews for projects with significant environmental impacts.

SEPA was enacted to "encourage productive and enjoyable harmony between humankind and the environment" and to "prevent or eliminate damage to the environment and biosphere." RCW 43.21C.010. Thus in adopting SEPA, the Washington legislature declared the protection of the environment to be a core state priority, "recognize[ing] that each person has a fundamental and inalienable right to a healthful environment and that each person has a responsibility to contribute to the preservation and enhancement of the environment." RCW 43.21C.020(3). This policy statement "indicates in the strongest possible terms the basic importance of

environmental concerns to the people of the state." *Leschi v. Highway Comm'n*, 84 Wn.2d 271, 279–80 (1974).

SEPA is more than a purely "procedural" statute that encourages informed and politically accountable decision-making. SEPA requires agencies to integrate environmental concerns into their decision making processes by studying and explaining environmental consequences before decisions are made. *See Stempel v. Dep't of Water Resources*, 82 Wn.2d 109, 117–18 (1973). In enacting SEPA, the state legislature gave decision-makers the affirmative authority to deny projects where environmental impacts are significant, cannot be mitigated, and collide with local rules or policies. SEPA provides substantive authority for government agencies to condition or even deny proposed actions—even where they meet all other requirements of the law—based on their environmental impacts. RCW 43.21C.060. As one treatise points out, when this premise was challenged by project proponents early in SEPA's history, "the courts consistently and emphatically responded that even if the action previously had been ministerial, it became environmentally discretionary with the enactment of SEPA."

SEPA requires an Environmental Impact Statement for "major actions having a probable significant, adverse environmental impact." RCW 43.21C.031(1). "The primary function of an EIS is to identify adverse impacts to enable the decisionmaker to ascertain whether they require either mitigation or denial of the proposal." *Victoria Tower P'ship v. City of Seattle*, 59 Wn. App. 592, 601(1990); WAC 197-11-400(2) ("An EIS shall provide impartial discussion of significant environmental impacts and shall inform decision makers and the public of reasonable alternatives, including mitigation, that would avoid or minimize adverse impacts or enhance environmental quality.") The purpose of an EIS is to provide decision makers with "sufficient information to make a reasoned decision." *Citizens Alliance To Protect Wetlands v. City of Auburn*, 126 Wn.2d 356, 362 (1995).

As noted above, the issuance of a 401 certification is exempt from SEPA. See WAC 197-11-800(9). However, if the Project includes "actions, physically or functionally related to each other, some of which are categorically exempt and some of which are not" the 401 Certification is not exempt. WAC 197-11-305(1)(b)(i); *Foster v. King County*, 83 Wn. App. 339, 348 (1996) (SEPA "categorical exemptions do not apply to actions that are a mixture of exempt and non-exempt activities"); *see* also *Water Quality Certifications for Existing Hydropower Dams* at 7. Therefore, Ecology must determine:

(1) if any non-SEPA exempt activities trigger SEPA, and (2) if SEPA applies, comply with SEPA before issuing the 401 certification decision.

VII. CONCLUSION.

Commenters respectfully request that Ecology deny Rye's request for a CWA 401 certification. Rye filed a woefully incomplete application, leaving Ecology without grounds to certify the Project will comply with water quality standards. Based on available information, Ecology must deny the certification because the Project cannot pass muster under the state's Tier II Antidegradation Review, violates narrative and numeric water quality standards, and fails to protect designated uses.

Rye prematurely asks Ecology to certify an energy development that would destroy irreplaceable tribal cultural resources and have wide ranging, significant impacts on water quality, fish, and wildlife. For the reasons explained herein and supported by exhibits to this comment, Ecology must deny the Project's 401 certification. Thank you in advance for considering Columbia Riverkeeper, the Washington Chapter of Sierra Club, American Rivers, and the Washington Environmental Council's input on this controversial energy development.

Sincerely,

Laven Galdbey

Lauren Goldberg Legal and Program Director Columbia Riverkeeper

Simone Anter Staff Attorney Columbia Riverkeeper

Andrew Hawley Staff Attorney Western Environmental Law Center On behalf of Columbia Riverkeeper

Margie Von Cleve

Margie Van Cleve Sierra Club - Washington State Conservation Chair

Wendy McDermott Director, Puget Sound - Columbia Basin American Rivers

Rebecca Ponzio Climate and Fossil Fuel Programa Director Washington Environmental Council

 cc: Lauren McCloy, Governor's Office Jennifer Hennessey, Governor's Office Phil Rigdon, Yakama Nation Rose Longoria, Yakama Nation Anthony Aronica, Yakama Nation Chris Marks, CTUIR Carl Merkely, CTUIR Nakia Williamson-Cloud, Nez Perce Tribe

Table of Exhibits

Columbia Riverkeeper et al. Public Comments on Rye Development's Goldendale Pumped Storage Project

Exhibit No.	Description
1	Columbia Riverkeeper & Friends of the White Salmon, Comment to FERC, (Mar. 12, 2020), <i>In</i> FERC Docket No. 1486.
2	The Confederated Tribes and Bands of the Yakama Nation, Comment to FERC, (Feb. 21, 2019), <i>In</i> FERC Docket No. 1486.
3	American Rivers, et al., Comment to FERC, (Mar. 12, 2020), <i>In</i> FERC Docket No. 1486. Filed on Mar. 12, 2020.
4	U.S. Fish & Wildlife Services, Comment to FERC, (Mar. 3, 2020), <i>In</i> FERC Docket No. 1486.
5	Wash. Dep't of Fish & Wildlife, Comment to FERC, (Mar. 10, 2020), <i>In</i> FERC Docket No. 1486.
6	Turlock Irrigation District, Comment to FERC, (Mar. 11, 2020), <i>In</i> FERC Docket No. 1486.
7	Letter from Patrick Baird to FERC (Oct. 16, 2020), <i>In</i> FERC Docket No. 14861 & Telephone Memo from Suzanne Novak to FERC (Oct. 7, 2020), <i>In</i> FERC Docket No. 14861
8	U.S. Fish & Wildlife, Updated list of threatened and endangered species that may occur in your proposed project location (Oct. 14, 2020), <i>In</i> FERC Docket No. 14861.
9	Courtney Flatt, OPB, Northwest Clean-Energy Advocates Eye Pumped Hydro to Fill Gaps, with Tribes Noting Concerns, Jul. 27 2020 https://www.opb.org/article/2020/07/27/pumped-hydro-power-columbia- river-gorge-renewable-energy/.
10	Letter from The Confederated Tribes and Bands of the Yakama Nation to Erik Steimle (Feb. 14, 2018), <i>In</i> FERC Docket No. 14861.
11	Zachary E. Hooely Underwood et al., <i>An Intermittent Stream Supports</i> <i>Extensive Spawning of Large-River Native Fishes</i> , Transactions of the American Fisheries Society, 426 (2018)

12	Angela R. Riley, Indian Remains, Human Rights: Reconsidering Entitlement Under the Native American Graves Protection and Repatriation Act," 34 Columbia Human Rights L. R. 49 (2002).
13	Jack F. Trope & Walter R. Echo-Hawk, The Native American Graves Protection and Repatriation Act: Background and Legislative History, in Repatriation Reader: Who Owns American Indian Remains? 123, 126 (Devon A. Mihesuah ed., 2000).
14	Evolved Energy Research, Washington State Energy Strategy Decarbonization Demand and Supply Side Results (Aug. 2020), https://www.commerce.wa.gov/wp-content/uploads/2020/08/2020-08-2 5-EER-DDP-Modeling-Advisory-Committee-Presentation.pdf.
15	Anthony Jones, Critique of the Goldendale Energy Storage Hydroelectric Project, Notification of Intent (Dec. 3, 2019).
16	Letter from U.S. Fish & Wildlife to FERC, Attachment A at 4 (May 30, 2019), <i>In</i> FERC Docket No. 14861.
17	Sullivan, S. M. P., M. C. Rains, A. D. Rodewald, W. W. Buzbee, and A. D. Rosemond, <i>Distorting Science, Putting Water at Risk.</i> Science 369(6505):766–768 (2020).
18	Leslie M. Reid and Robert R. Ziemer, <i>Evaluating the Biological Significance of Intermittent Streams,</i> USDA Forest Service, Pacific Southwest Research Station" (1994).
19	Ecology Water Quality Assessment Listing ID 6206, https://apps.ecology.wa.gov/approvedwqa/ApprovedPages/ViewApprov edListing.aspx?LISTING_ID=6206 (last visited Nov. 9, 2020).
20	Aspect Consulting Inc., 2011 Swale Creek Subbasin Water Level Monitoring Summary, WRIA 30 (June 29, 2011).

21	Watershed Professionals Network, LLC and Aspect Consulting Inc., <i>Swale Creek Water Temperature Study</i> (Sept. 2004).
22	Aspect Consulting, <i>Riparian Vegetation Assessment, Little Klickitat River and Swale Creek</i> (June 30, 2009).