

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

DOCKET UE-190882

**EXHIBIT TO
TESTIMONY OF**

David C. Gomez

**STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

MEIC vs. Dept. of Interior, Complaint for Declaratory and Injunctive Relief

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IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF MONTANA
BILLINGS DIVISION

MONTANA ENVIRONMENTAL
INFORMATION CENTER, INDIAN
PEOPLE'S ACTION, 350
MONTANA, SIERRA CLUB,
WILDEARTH GUARDIANS,

Plaintiffs,

vs.

DAVID BERNHARDT, in his
official capacity as Secretary of the
Department of the Interior; U.S.
OFFICE OF SURFACE MINING,
an

Case No. _____

**COMPLAINT FOR
DECLARATORY AND
INJUNCTIVE RELIEF**

agency within the U.S. Department of the Interior; U.S. DEPARTMENT OF THE INTERIOR, a federal agency; MARCELO CALLE, in his official capacity as Program Support Division Manager of U.S. Office of Surface Mining Western Region; DAVID BERRY, in his official capacity as Regional Director of U.S. Office of Surface Mining Western Region; LANNY ERDOS, in her official capacity as Director of U.S. Office of Surface Mining; and CASEY HAMMOND, in his official capacity as Assistant Secretary of Land and Minerals Management of the U.S. Department of the Interior,

Defendants.

INTRODUCTION

1. Plaintiffs Montana Environmental Information Center, Indian People's Action, 350 Montana, Sierra Club, and WildEarth Guardians (collectively, "Conservation Groups") bring this civil action for declaratory and injunctive relief against Secretary of the Interior David Bernhardt, the U.S. Office of Surface Mining Reclamation and Enforcement, the U.S. Department of the Interior, Marcelo Calle, David Berry, Lanny Erdos, and Casey Hammond (collectively, "Federal Defendants") in accordance with the Administrative

Procedure Act (APA), 5 U.S.C. §§ 701-706, and the National Environmental Policy Act (NEPA), 42 U.S.C. §§ 4321-4370h.

2. Nearly fifty years ago the Montana Department of Health and Environmental Sciences warned that building a mine-mouth coal-fired power plant in Colstrip would create a boom-and-bust cycle that ultimately would both harm people working at the strip-mine and power plants, and also leave the local environment too polluted to support the sustainable land uses that preceded industrialization:

Depletion of coal as a resource is not the only long term consideration involved here. An economy based on the exploitation of the coal is developed in the coal fields themselves, as well as where the electrical energy is being consumed. The short term gains to the Colstrip area are made known by the interests involved in building the plant and mining the coal. Jobs are created and money enters the local economy from these jobs. As long as the coal is mined and the power is generated, the flow of money through the community is assured. When the coal is exhausted, or its use for production of electricity becomes obsolete, the economy and way of life dependent on the exploitation of the coal will suffer. Many feel that this consequence is inevitable; that only its magnitude and timing are in question. Improper reclamation of the land may destroy the original economic base of the region: the land used for agriculture. Numerous examples of boom and bust cycles can be cited. There is little evidence that this sort of thing will not happen in the Fort Union Region.

Mont. Dep't of Health and Env'tl. Sciences, Environmental Impact Statement on the Proposed Montana Power Company Electrical Generating Plant at Colstrip Montana, at 82 (1973). Approximately one-half century later, the Federal

Defendants refused to heed this warning and failed to use their considerable resources to outline what a just transition would look like in Colstrip.

3. As predicted by the Department of Health and Environmental Sciences in 1973, coal's use for the production of electricity is becoming obsolete and the need for a just transition to clean energy supplies is urgent, both to stave off the catastrophic impacts of climate change and to protect the people of Colstrip. However, to the detriment of the climate and Colstrip, the Federal Defendants failed to recognize this ongoing transformation of the energy system, and instead approved the 6,500-acre Area F expansion of the Rosebud coal strip-mine (technically, the mining plan modification Federal Coal Lease C2011003F), which would supposedly extend active mining operations at the strip-mine through 2040.

4. In approving the Area F expansion, Federal Defendants violated NEPA's most basic requirement by failing to tell the public the whole environmental truth about numerous harmful impacts of the 6,500-acre Area F expansion of the already sprawling Rosebud coal strip-mine, impacts that, as predicted half a century ago, threaten to "destroy the original economic base of the region: the land used for agriculture."

5. In the environmental impact statement (EIS) for the Area F expansion, the agencies refused to disclose the extent of numerous harmful impacts from the mine expansion, including major adverse impacts to surface waters and the

climate-change worsening impacts of over 100 million tons of greenhouse gases that will be emitted from burning the coal in Area F. The agencies refused altogether to acknowledge harmful impacts to the Yellowstone River from the major water withdrawals from that river that are required to burn the Area F coal.

6. The agencies flatly refused to consider reasonable alternatives for a just transition that could alleviate the impacts of the “inevitable” “bust” predicted by the Montana Department of Health and Environmental Sciences in 1973. Instead, the agencies’ blinkered analysis simply ignored the disappearing market for electricity from highly polluting coal and, specifically, multiple indications that the Colstrip Power Plant will close well before 2040, the date through which strip-mining operations in Area F are assumed to continue. Thus, the agencies increased the likelihood of an unplanned, abrupt, and painful end to the coal economy in Colstrip.

7. The reality is that burning coal for energy is driving the severe, pervasive, and potentially irreversible impacts of climate change, while also causing significant localized environmental damage. Consequently, coal as an energy source is, as the Montana Department of Health and Environmental Sciences predicted, becoming obsolete. The majority of the owners of the Colstrip Power Plant have indicated that they intend to exit the plant well before 2030, and units 1 and 2 will be closing by the end of 2019. In this circumstance, Federal

Defendants had an obligation to tell the public the clear-eyed truth about the harms of expanded coal mining and offer reasonable alternatives that would lead to a just transition to clean, renewable energy.

8. Because Federal Defendants failed to fulfill their fundamental obligations under NEPA, the Conservation Groups are forced to bring this action.

JURISDICTION AND VENUE

9. This Court has federal-question jurisdiction over this action, 28 U.S.C. § 1331, which arises under NEPA, 42 U.S.C. §§ 4321-4370h, and the APA, 5 U.S.C. §§ 701-706.

10. The requested declaratory and injunctive relief is authorized by 28 U.S.C. §§ 2201, 2202, and 5 U.S.C. §§ 705, 706.

11. Venue is proper in this Court pursuant to 28 U.S.C. § 1391(b)(2) because a substantial part of the events or omissions giving rise to this action occurred in Montana and a substantial part of the property that is the subject of the action, the Rosebud Mine, is located in Montana. Venue is also proper under 28 U.S.C. § 1391(e)(1)(C) because officers of the United States are defendants and Plaintiffs Montana Environmental Information Center, 350 Montana, and Indian People's Action reside in Montana.

12. Divisional venue is proper in the Billings Division of this Court because the strip mine is located within the Billings Division.

13. The Conservation Groups have standing under Article III of the U.S. Constitution because the challenged actions cause them economic, professional, recreational, and aesthetic harm, which will be remedied by a favorable ruling from this Court.

14. The challenged actions are final and subject to judicial review under 5 U.S.C. §§ 702, 704, 706.

15. Conservation Groups have exhausted any and all available and required administrative remedies.

PARTIES

16. Plaintiff Montana Environmental Information Center (MEIC) is a nonprofit organization founded in 1973 with approximately 3,000 members throughout the United States and the State of Montana. MEIC is dedicated to the preservation and enhancement of the natural resources and natural environment of Montana and to the gathering and disseminating of information concerning the protection and preservation of the human environment through education of its members and the general public concerning their rights and obligations under local, state, and federal environmental protection laws and regulations. MEIC is also dedicated to assuring that federal officials comply with and fully uphold the laws of the United States that are designed to protect the environment from pollution. MEIC and its members have intensive, long-standing recreational,

aesthetic, scientific, professional, and spiritual interests in the responsible production and use of energy, the reduction of greenhouse gas (GHG) pollution as a means to ameliorate the climate crisis, and the land, air, water, and communities impacted by climate change. MEIC members live, work, and recreate in areas that will be adversely impacted by the Rosebud Mine expansion. MEIC brings this action on its own behalf and on behalf of its adversely affected members.

17. Plaintiff Indian People's Action is a nonprofit organization that works in Montana urban areas to reach out to and empower Native Americans to address the social, economic, environmental and racial inequities that shape their lives. Indian People's Action works on multiple fronts: native rights, anti-discrimination, and the injustice in the justice system.

18. Plaintiff 350 Montana is a Montana-based nonprofit organization based in Missoula that works to reduce atmospheric carbon dioxide (CO₂) concentrations to 350 parts per million (ppm) by implementing strategic actions and advocating policies to end fossil fuel burning with the greatest urgency. 350 Montana envisions a rapid conversion to a 100 percent renewable global energy system using wind, water, and solar. 350 Montana works with the global grassroots climate movement to achieve these goals and safeguard Earth's life-support systems.

19. Plaintiff WildEarth Guardians (Guardians) is a nonprofit conservation organization with more than 200,000 members and activists throughout the United States, including nearly 900 in Montana. Guardians has a major office in Missoula, Montana. Guardians' mission is to protect and restore the wildlife, wild rivers, wild places, and health of the American West. Through its Climate and Energy Program, Guardians is dedicated to protecting the American West from the dangers it faces from the climate crisis. Guardians' members and staff have recreational, aesthetic, scientific, professional, and spiritual interests in a protected and stable climate, and an environment that is sustained by a protected and stable climate. Guardians' members use and plan to continue to use and enjoy landscapes impacted by the Rosebud Mine Expansion. Guardians brings this action on its own behalf and on behalf of its adversely affected members.

20. Plaintiff Sierra Club is a national nonprofit organization with 64 chapters and over 700,000 members nationwide, including more than 2,900 in Montana, dedicated to exploring, enjoying, and protecting the wild places of the earth; to practicing and promoting the responsible use of the earth's ecosystems and resources; to educating and enlisting humanity to protect and restore the quality of the natural and human environment; and to using all lawful means to carry out these objectives. Sierra Club's concerns encompass the exploration, enjoyment and protection of the lands and waters of Montana. The Sierra Club's

particular interest in this case and the issues which the case concerns stem from the impacts to water resources from the Rosebud Mine expansion, and the air pollution impacts from the eventual combustion of the coal from the Rosebud Mine. The Sierra Club brings this action on its own behalf and on behalf of its adversely affected members.

21. Defendant David Bernhardt is Secretary of the U.S. Department of the Interior. Secretary Bernhardt is responsible for implementing and complying with federal laws governing mining plan modifications, including NEPA, the Mineral Leasing Act (MLA), and the Surface Mining Control and Reclamation Act (SMCRA). Secretary Bernhardt is required to assure that any mining of leased federal coal is in the best environmental and economic interests of the American people prior to approving any federal mining plan modification.

22. Defendant U.S. Department of the Interior is a federal department responsible for implementing and complying with federal laws governing approval of mining plan modifications, including NEPA, the MLA, and SMCRA.

23. Defendant U.S. Office of Surface Mining Reclamation and Enforcement (OSM) is a federal agency within the U.S. Department of the Interior that is responsible for assuring lawful environmental review of mining plan modifications under NEPA and recommending approval, conditional approval, or disapproval of applications for mining plan modifications. OSM's Western

Regional Office conducted the environmental review of the mining plan modification for the expansion of the Rosebud Mine.

24. Defendant Marcello Calle is Program Support Division Manager of the U.S. Office of Surface Mining Western Region. Mr. Calle is responsible for managing federal coal resources, including those involved in this action. Mr. Calle is responsible for implementing and complying with NEPA and other federal laws governing review and approval of applications for mining plan modifications.

25. Defendant David Berry is Regional Director of OSM's Western Region. Mr. Berry is responsible for managing federal coal resources, including those involved in this action, and for making recommendations to the Secretary of the Interior regarding applications for mining plan modifications. Mr. Berry is also responsible for implementing and complying with NEPA and other federal laws governing review and recommendations for approval, conditional approval, or disapproval of applications for mining plan modifications. Mr. Berry recommended approval of the mining plan modification for the expansion of the Rosebud Mine.

26. Defendant Lanny Erdos is Director of OSM. Mr. Erdos is responsible for assuring that OSM complies with federal laws, including NEPA and other laws governing review and recommendations for approval, conditional approval, or disapproval of applications for mining plan modifications.

27. Defendant Casey Hammond is Acting Assistant Secretary of Land and Minerals Management of the U.S. Department of the Interior. Mr. Hammond is responsible for complying with federal laws governing approval, conditional approval, or disapproval of applications for mining plan modifications. Mr. Hammond's predecessor, Joseph Balash, approved the mining plan modification, allowing the Rosebud Mine Expansion.

LEGAL BACKGROUND

I. National Environmental Policy Act

28. "NEPA is our basic national charter for the environment." 40 C.F.R. § 1500.1(a). NEPA's goal is to "prevent or eliminate damage to the environment and biosphere and stimulate the health and welfare of" all people. 42 U.S.C. § 4321. NEPA recognizes that "each person should enjoy a healthful environment" and ensures that the federal government uses all practical means to "assure for all Americans safe, healthful, productive, and esthetically and culturally pleasing surroundings." *Id.* § 4331(b). NEPA also recognizes that "each person has a responsibility to contribute to the preservation and enhancement of the environment." *Id.* § 4331(c).

29. Ultimately, NEPA's point is "not better documents but better decisions." 40 C.F.R. § 1500.1(c). "NEPA's purpose is not to generate paperwork—even excellent paperwork—but to foster excellent action. The NEPA

process is intended to help public officials make decisions that are based on understanding of environmental consequences, and take actions that protect, restore, and enhance the environment.” *Id.*

30. NEPA requires agencies to act proactively by requiring them to “integrate the NEPA process with other planning at the earliest possible time to insure that planning and decisions reflect environmental values, to avoid delays later in the process, and to head off potential conflicts.” *Id.* § 1501.2.

31. To meet these goals, agencies must prepare a “detailed statement”—an environmental impact statement or “EIS”—for any “major Federal actions significantly affecting the quality of the human environment.” 42 U.S.C. § 4332(2)(C).

32. The EIS must discuss “alternatives to the proposed action.” 42 U.S.C. § 4332(2)(C)(iii). These alternatives are “the heart of the environmental impact statement.” 40 C.F.R. § 1502.14. An EIS must “rigorously explore and objectively evaluate all reasonable alternatives...” *Id.* § 1502.14(a). The “existence of a viable but unexamined alternative renders an environmental impact statement inadequate.” *Idaho Conservation League v. Mumma*, 956 F.2d 1508, 1519 (9th Cir. 1992).

33. The environmental impact statement must address “any adverse environmental effects which cannot be avoided should the proposal be

implemented.” 42 U.S.C. § 4332(2)(C)(ii). In so doing, the agency must evaluate “the relationship between local short-term uses of man’s environment and the maintenance and enhancement of long-term productivity.” *Id.* § 4332(2)(C)(iv).

34. NEPA further requires agencies to “recognize the worldwide and long-range character of environmental problems and, where consistent with the foreign policy of the United States, lend appropriate support to initiatives, resolutions, and programs designed to maximize international cooperation in anticipating and preventing a decline in the quality of mankind’s world environment.” *Id.* § 4332(2)(F).

II. Administrative Procedure Act

35. The Administrative Procedure Act (APA) provides a right to judicial review for any “person suffering legal wrong because of agency action.” 5 U.S.C. § 702. Actions that are reviewable under the APA include final agency actions “for which there is no adequate remedy in a court.” *Id.*

36. Under the APA, a reviewing court shall, *inter alia*, “compel agency action unlawfully withheld or unreasonably delayed,” *id.* § 706(1), and “hold unlawful and set aside agency action ... found to be arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with law.” *Id.* § 706(2)(A). Agency actions may also be set aside in other circumstances, such as where the action is

“in excess of statutory jurisdiction, authority, or limitations, or short of statutory right” or “without observance of procedure required by law.” *Id.* § 706(2)(B)-(F).

FACTS

I. The Pine Breaks

37. The Pine Breaks region that surrounds Colstrip, Montana, consists of rugged topography of semi-arid rolling plains, buttes, and badlands, with prominent sandstone rimrocks and stands of juniper and ponderosa pine. The Big Horn Mountains rise in the distance, and expanses of sky and changing weather patterns are visible in all directions.

38. The landscape supports a diversity of wildlife including pronghorns, elk, black bears, mountain lions, bobcats, burrowing owls, and sage grouse. The creeks in the Colstrip area, East and West Fork Armells Creek and their tributaries, flow north approximately 30 miles to their confluence with the Yellowstone River.

39. The region has been inhabited for thousands of years, including by the Northern Cheyenne, Shoshone, Crow, Kiowa, Lakota, and Nakota people. Euroamericans arrived in the late Nineteenth Century. Sustainable agricultural operations, predominantly hay growing and ranching that began in the region in the late Nineteenth Century, continue today. Currently the lands within Area F proposed for strip-mining serve as productive pastures for grazing livestock and as wildlife habitat.

40. Coal mining began in Colstrip in the 1920s, in an effort by the Great Northern Railway to obtain coal for its locomotives without having to deal with the coal miners' unions at underground mines in Red Lodge and Bozeman. Ironically, the railroad's reliance on coal delayed its conversion to diesel locomotives and, ultimately, proved more costly than profitable. When the company eventually switched its locomotives to diesel in the 1950s, it shuttered its strip-mine in Colstrip. The Montana Power Company reopened the Colstrip mine in 1968 to ship coal to the Corrette Power Plant in Billings, which was closed and subsequently demolished in 2015.

II. The Rosebud Mine and Colstrip Power Plant

41. The Rosebud Mine subsequently ramped up production to supply coal to the Colstrip Power Plant. In the face of broad public opposition, Montana regulators allowed the Montana Power Company, together with a conglomerate of West Coast utilities, to construct Units 1 and 2 of the Colstrip Power Plant in 1975 and 1976. In the public comments on the Montana Department of Health and Environmental Sciences' EIS on the proposed plants, 130 people supported construction and 2,867 opposed construction. At the time of construction—1975—the stated life of the coal plant was 30 years. Montana regulators predicted that the operation would start with a boom and end with a bust.

42. Ten years after the construction of Units 1 and 2, following a protracted struggle with local ranchers, conservationists, and the Northern Cheyenne Tribe, the utilities, led again by the Montana Power Company, constructed Units 3 and 4 at the Colstrip Power Plant. Today the four-unit Colstrip Power Plant has a generating capacity of 2,094 megawatts (MW), making it the second largest coal plant west of the Mississippi River. It is also one of the single largest sources of air pollution in the United States.

43. Having spread to five permit areas, the Rosebud Mine is now a sprawling operation covering 25,949 acres adjacent to the power plant and the town of Colstrip. The strip-mine produces 8-10.25 million tons of subbituminous coal per year, virtually all of which is burned in the nearby Colstrip Power Plant. By law the Colstrip Power Plant may only burn coal from the Rosebud Mine. The remainder of the coal from the mine—a small amount of high-sulfur, low-BTU “waste coal”—is burned at the Rosebud Power Plant, a 38 MW power plant located just north of Colstrip.

III. Delayed Reclamation and Polluted Water

44. Of the approximately 20,000 acres disturbed by mining and associated development, less than 10,000 acres have received Phase I bond release, which occurs after backfilling and regrading—the first step of reclamation. In the half century since strip-mining began in earnest in 1968, only 651 acres—

approximately 3% of the permit area—have received full bond release, meaning full reclamation (the final phase, Phase IV bond release, requires reclamation of vegetation and water resources). Scientists at the U.S. Office of Surface Mining have complained about the “extremely slow reclamation process” at the Rosebud Mine, noting that “pits all remain open” and there is scant evidence that “significant amounts of grading has taken place” or that “any seeding has been done to the extent it is successful and visible from photographs.” Regulators have recognized the coal company’s limited success in establishing shrubs or trees on land that has been strip-mined.

45. The coal complex has degraded and polluted water resources in the Colstrip area. East Fork Armells Creek, which drains the area in which the mine and power plant are located, has been identified as impaired and not meeting water quality standards since 1996. It is currently deemed impaired for aluminum, iron, specific conductivity, total dissolved solids, nitrate/nitrite, total nitrogen, total phosphorous, habitat alterations, and alterations in stream-side or littoral vegetative covers. The Montana Department of Environmental Quality has identified strip-mining as a potential cause of the pollution. The agency has been unable to find reference streams with which to compare East Fork Armells Creek, which, according to the agency, “could be the result of chance alone, or it may be that EF [East Fork] Armells [creek’s] base chemistry has been altered to such a degree by

human activities that it no longer resembles any of the reference sites.” In the 23 years since the Montana Department of Environmental Quality first identified East Fork Armells Creek as impaired and not meeting water quality standards, the agency has failed to promulgate a remediation plan for the creek.

46. The Rosebud coal seam that is being blasted and removed at the strip-mine functions as an aquifer, where it has not been destroyed. The Montana Department of State Lands recognized in 1982 that “[s]ome of the best quality groundwater in the Rosebud Mine area is found in the Rosebud coal aquifer.” Approximately 10% of stock water wells in the area are sourced in the Rosebud coal aquifer. Federal Defendants’ EIS for the Area F expansion found that the Rosebud coal aquifer is likely “the primary contributor of ground water to ... wetlands and drainages” in the mine area.

47. After the coal aquifer is strip-mined and the pits are backfilled with the blasted rock above the coal seam (called “spoils”), it may take hundreds of years for the aquifer to recover. This will dewater streams and wetlands. When the “spoils” aquifer eventually fills with water it will be highly polluted. The EIS for the Area F expansion found that water quality monitoring from existing mine areas shows exceedances of water quality standards for “arsenic, cadmium, lead, nitrate, and zinc” and concentrations of “calcium, magnesium, manganese, sodium, sulfate, and TDS [total dissolved solids] exceeding upper recommended limits for

livestock.” The EIS further noted that the “pre-mining ground water quality of the Rosebud Coal in the project area did not show any exceedances of arsenic, cadmium, lead, and nitrate standards, with the exception of one lead standard exceedance.” When this polluted spoils water eventually flows back into creeks in the area, “TDS, sulfate, alkalinity, calcium, sodium, nitrate+nitrite, magnesium, and manganese concentrations in streams below the spoil may increase and exceed nitrate+nitrate and total nitrogen standards, and recommended limits for the other parameters for livestock, other ruminants, and aquatic life when and where ground water discharge is the major or only source of water to streams.” That is, mining will extend and exacerbate the current degradation and pollution of water resources in the area for centuries—long after the coal companies and utilities have left the area.

48. For years, the Colstrip Power Plant disposed its coal ash in ponds that intersect the water table. In total the ponds leak about 200 million gallons of polluted water into the water table annually. As a result, the local aquifer is no longer a viable water source for the community of Colstrip. Though regulators have been aware of the plume of pollution from the ash ponds for years, no clean-up plan has been finalized or implemented.

IV. Greenhouse Gas Pollution

49. The worsening crisis of climate change—driven by greenhouse gas emissions from burning fossil fuels, the dirtiest of which is coal—is one of the greatest and most pressing issues of our time. The Intergovernmental Panel on Climate Change, the global authority on the science of climate change, warned in its 2014 Synthesis Report that continued high levels of greenhouse gas emissions are increasing the “likelihood of severe, pervasive, and irreversible impacts to people and ecosystems.” The U.S. Global Change Research Program, the leading federal authority on climate change in the United States, warned in its Fourth National Climate Assessment that “significant reductions in emissions” are necessary to avoid the risk of unanticipated changes and impacts, some of which may be “large and potentially irreversible.” In 2015, the nations of the world reached the Paris Agreement to limit greenhouse gas emissions, establishing the goal to “hold[] the increase in the global average temperature to well below 2°C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5°C above pre-industrial levels.”

50. The Rosebud Mine and Colstrip Power Plant complex is one of the largest individual sources of greenhouse gas pollution in the United States, emitting approximately 15 million tons of carbon dioxide equivalent (CO₂e)

emissions annually. Since 1968, the strip-mine and power plant have emitted approximately 500 million tons of CO₂e emissions.

V. The Area F Expansion

51. On November 2, 2011, Western Energy submitted an application packet to the Montana Department of Environmental Quality (DEQ) to permit the addition of Area F to the Rosebud Mine. The Area F expansion adds approximately 6,500 acres to the Rosebud Mine, swelling its size to over 30,000 acres. The Rosebud Coal seam is thinner in Area F, approximately 20 feet thick, than it is in other areas of the mine, and it has higher sodium content. It also has higher stripping ratios than other areas of the mine and is located farther from the power plant, making mining Area F more expensive.

52. The Area F expansion is located almost entirely in the headwaters of West Fork Armells Creek. It is intersected by five tributaries of West Fork Armells Creek: Black Hank Creek, Donley Creek, Robbie Creek, McClure Creek, and Trail Creek. As elsewhere, the Rosebud coal seam in Area F is saturated and functions as an aquifer. The Area F EIS recognized that “[g]round water in the Rosebud Coal is of better quality” than other groundwater in the area. Numerous springs and seeps occur below where the coal seam outcrops, indicating that “the Rosebud Coal is the primary contributor of ground water to the[] wetlands and drainages.”

53. The Area F expansion contains approximately 70 million tons of coal, all of which will be stripped and burned at the Colstrip Power Plant and the Rosebud Power Plant. When combusted the coal will cause over 100 million tons of CO₂e emissions over 19 years. Using the social cost of carbon protocol developed by the Federal Interagency Working Group on the Social Cost of Carbon, these emissions will cause billions of dollars in climate change damages, significantly exceeding the value of the coal. That is, strip-mining and burning this coal will lead to a net economic loss to the public (though it may profit the coal company and the utilities that own the coal plant).

54. In November 2018, the Montana Department of Environmental Quality and U.S. Office of Surface Mining (OSM) jointly issued the final EIS on the mine expansion, and in June 2019 OSM issued a record of decision (ROD) approving the Area F expansion. The EIS recognized that the mine expansion would have major, long-term adverse impacts to surface water quality and water quantity; however, the EIS failed to provide any details about these impacts, despite Federal Defendants' possession of decades worth of data on which to base a robust analysis.

55. Similarly, the EIS repeatedly trumpeted the supposed economic benefits of the mine expansion. Yet it refused to acknowledge that, using the social cost of carbon protocol, the social and environmental costs of the mine expansion

related to climate change alone would significantly exceed the purported benefits. The EIS similarly refused to assess the inevitable impacts to the Yellowstone River from the massive water withdrawals required for operations of the Colstrip Power Plant where the Area F coal will be burned.

56. The EIS considered only three alternatives: (1) a no-action alternative, (2) the proposed action, and (3) the proposed action with a dozen additional mitigation measures. Scientists for the agencies noted that “there isn’t much distinction between alternatives” and that the use of mitigation measures to distinguish between supposed alternatives was confused and improper. In the EIS process, the agencies opted to remove mitigation measures related to tribal cultural resources and the establishment of a compensatory fund for tribes.

57. The EIS refused to consider a middle-ground alternative in which less coal would be mined for less than 19 years. Thus, both action alternatives contemplated identical actions: continued strip-mining of 70 million tons of coal until approximately 2040. In doing so, the agencies refused to recognize that laws passed in Washington and Oregon—where the majority of the power-plant owners are located—preclude the sale of electricity from coal-fired power plants after 2025 and 2030, respectively. That is, the majority of the plant’s owners will not be permitted to burn coal at the plant after 2025 and 2030. By refusing to recognize this legal reality, the agencies’ limited analysis failed to give detailed consideration

to an alternative that would allow for a just transition in Colstrip from coal-mining to clean, renewable energy.

FIRST CAUSE OF ACTION

(NEPA Violation: Failure to Adequately Evaluate Cumulative Effects on Surface Water)

58. Conservation Groups incorporate by reference all preceding paragraphs.

59. NEPA requires federal agencies' environmental analysis to consider "any adverse environmental effects which cannot be avoided." 42 U.S.C. § 4332(2)(C)(ii).

60. Agencies are required to take a hard look at direct, indirect, and cumulative impacts of a proposed action. 40 C.F.R. § 1508.25(c).

61. Cumulative impacts are "the impact[s] on the environment which result[] from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions, regardless of what agency (Federal or non-Federal) or person undertakes such actions." *Id.* § 1508.7.

62. The Rosebud Mine expansion will cause foreseeable cumulative environmental impacts to surface water. Federal Defendants conducted only a perfunctory analysis of impacts to surface water, despite possessing an abundance of data on which the agency could have conducted a robust quantitative analysis of

impacts from past, present, and foreseeable future mining at Rosebud on nearby surface waters.

63. Federal Defendants' failure to adequately consider these impacts was arbitrary and capricious and unlawful, and/or constitutes "agency action unlawfully withheld or unreasonably delayed," in violation of NEPA, 42 U.S.C. § 4332(2)(C), NEPA's implementing regulations, and the APA, 5 U.S.C. §§ 706(2)(A), 706(1).

SECOND CAUSE OF ACTION

(NEPA Violation: Failure to Evaluate Indirect and Cumulative Effects to the Yellowstone River)

64. Conservation Groups incorporate by reference all preceding paragraphs.

65. NEPA requires federal agencies' environmental analysis to consider "any adverse environmental effects which cannot be avoided." 42 U.S.C. § 4332(2)(C)(ii).

66. Agencies are required to take a hard look at direct, indirect, and cumulative impacts of a proposed action. 40 C.F.R. § 1508.25(c).

67. Direct impacts are "caused by the action and occur at the same place and time." *Id.* § 1508.8(a). Indirect impacts are "caused by the action and are later in time or farther removed in distance but are still reasonably foreseeable." *Id.* § 1508.8(b).

68. Cumulative impacts are “the impact[s] on the environment which result[] from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions, regardless of what agency (Federal or non-Federal) or person undertakes such actions.” *Id.* § 1508.7.

69. Connected actions are actions that “(i) Automatically trigger other actions which may require environmental impact statements; (ii) Cannot or will not proceed unless other actions are taken previously or simultaneously; [or] (iii) Are interdependent parts of a larger action and depend on the larger action for their justification.” *Id.* § 1508.25(a)(1). Cumulative actions are actions “which when viewed with other proposed actions have cumulatively significant impacts and should therefore be discussed in the same impact statement.” *Id.* § 1508.25(a)(2). Agencies must assess the impacts of connected and cumulative actions.

70. All coal from the Area F expansion will be burned at the Colstrip Power Plant (with a negligible amount of “waste coal” burned at the Rosebud Power Plant), resulting, foreseeably, in significant water withdrawals by the Colstrip Power Plant from the Yellowstone River. The impacts of the water withdrawals will especially exacerbate low summer flows in the Yellowstone due to climate change, resulting in magnified and cascading ecological impacts.

71. Federal Defendants’ failure to consider these impacts was arbitrary and capricious and unlawful, and/or constitutes “agency action unlawfully

withheld or unreasonably delayed,” in violation of NEPA, 42 U.S.C. § 4332(2)(C), NEPA’s implementing regulations, and the APA, 5 U.S.C. §§ 706(2)(A), 706(1).

THIRD CAUSE OF ACTION

(Failure to Adequately Evaluate Greenhouse Gas Pollution from Combustion)

72. Conservation Groups incorporate by reference all preceding paragraphs.

73. NEPA requires federal agencies to take a hard look at “any adverse environmental effects which cannot be avoided.” 42 U.S.C. § 4332(2)(C)(ii).

74. Agencies must “recognize the worldwide and long-range character of environmental problems.” *Id.* § 4332(2)(F).

75. Agencies must also “insure that presently unquantified environmental amenities and values may be given appropriate consideration in decisionmaking along with economic and technical considerations.” *Id.* § 4332(2)(B).

76. Agencies may not trumpet the economic benefits of an agency action without also acknowledging the economic costs of the action.

77. Federal Defendants failed to monetize the economic costs of greenhouse gas (GHG) emissions from the mining plan modification, despite their monetizing and trumpeting the economic benefits of the mining plan modification.

78. Federal Defendants failed to adequately assess the effects of indirect and cumulative greenhouse gas emissions. Federal Defendants' analysis of greenhouse gas emissions was misleading and arbitrary.

79. Federal Defendants' failure to adequately consider the impacts of GHG emissions from the Rosebud Mine expansion was arbitrary and capricious and unlawful, and/or constitutes "agency action unlawfully withheld or unreasonably delayed," in violation of NEPA, 42 U.S.C. § 4332(2)(B), (C), (F), NEPA's implementing regulations, and the APA, 5 U.S.C. §§ 706(2)(A), 706(1).

FOURTH CAUSE OF ACTION

(Failure to Consider a Reasonable Range of Alternatives)

80. Conservation Groups incorporate by reference all preceding paragraphs.

81. Agencies must prepare an EIS that discusses "alternatives to the proposed action." 42 U.S.C. § 4332(2)(C)(iii).

82. Implementing regulations require an EIS's discussion to "rigorously explore and objectively evaluate all reasonable alternatives..." *Id.* § 1502.14(a).

83. The "existence of a viable but unexamined alternative renders an environmental impact statement inadequate." *Idaho Conservation League v. Mumma*, 956 F.2d 1508, 1519 (9th Cir. 1992).

84. Federal Defendants refused to consider any middle-ground alternative that involved mining less coal, despite abundant record evidence that the Colstrip Power Plant will cease operations within ten years, obviating the need to strip-mine all the coal in Area F. The Federal Defendants' failure to consider a reduced coal mining alternative precluded the agency from examining in detail any just transition alternative and increases the likelihood that an abrupt "bust," predicted in 1973 by the Montana Department of Health and Environmental Sciences, will come to pass.

85. Federal Defendants' failure to consider reasonable and viable alternatives was arbitrary and capricious and unlawful, and/or constitutes "agency action unlawfully withheld or unreasonably delayed," in violation of NEPA, 42 U.S.C. § 4332(2)(C), NEPA's implementing regulations, and the APA, 5 U.S.C. §§ 706(2)(A), 706(1).

PRAYER FOR RELIEF

WHEREFORE, Conservation Groups respectfully request that this Court:

A. Declare that Federal Defendants' actions violate NEPA, the regulations and policies promulgated thereunder, and the APA;

B. Vacate and set aside Federal Defendants' action;

C. Enjoin Federal Defendants from re-issuing or approving the Rosebud Mine Expansion until Federal Defendants have demonstrated compliance with NEPA and the APA;

D. Enjoin operations in the Rosebud Mine Expansion area until Federal Defendants have demonstrated compliance with NEPA and the APA;

E. Award Conservation Groups their fees, costs, and other expenses as provided by applicable law;

F. Issue such relief as Conservation Groups subsequently request or that this Court may deem just, proper, and equitable.

Respectfully submitted this 18th day of November, 2019,

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