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July 28, 2022

Danielle Gosselin
Director
Office of Environmental Analysis
Surface Transportation Board
395 E Street SW
Washington, D.C. 20423-0012

Re: Seven County Coalition Q2 2022 Quarterly Report
Finance Docket No. 36283

Dear Danielle:

This quarterly progress report is submitted in accordance with Mitigation Measure MC-MM-1 of the December 15, 2021 Surface Transportation Board (STB) final decision (Docket No. FD 36284) authorizing the Seven County Infrastructure Coalition (Coalition) to construct and operate a new rail line connecting in the Uinta Basin.

Progress on Board-imposed mitigation measures for the period of April 1, 2022 through June 30, 2022 is included in the attached mitigation checklist.

Please let me know if you have any questions.

Best Regards,



Kathryn K. Floyd

Enclosures

cc: Joshua Wayland, Surface Transportation Board
Nicole Fresard, U.S. Army Corps of Engineers

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Kristy Groves, U.S. Forest Service
Sindy Smith, Public Lands Policy Coordinating Office
Christopher Secakuku, Bureau of Indian Affairs
George Weekley, U.S. Fish and Wildlife Service
Rollie Wilson, Attorney for Ute Indian Tribe of the Uintah & Ouray Reservation
Keith Heaton, Seven County Infrastructure Coalition
Mark Hemphill, Rio Grande Pacific Railway

F.D. 36284 – Mitigation Checklist

Mitigation Category	Mitigation Measure	Compliance Metric	Timeframe	Status Comments
Voluntary Mitigation Measures – Construction and Rail Operations Safety	VM-1. The Seven County Infrastructure Coalition (Coalition) will follow all applicable federal Occupational Safety and Health Administration (OSHA), Federal Railroad Administration (FRA), tribal, and state construction and operational safety regulations to minimize the potential for accidents and incidents during construction and operation of the rail line.			
Voluntary Mitigation Measures – Grade Crossing Safety	VM-2. The Coalition will consult with appropriate federal, tribal, state, and local transportation agencies to determine the final design of the at-grade crossing warning devices. Implementation of all grade-crossing warning devices on public roadways will be subject to review and approval, depending on location, by the Ute Indian Tribe of the Uintah and Ouray Reservation (Ute Indian Tribe), Utah Department of Transportation (UDOT), U.S. Forest Service (Forest Service), or Carbon, Duchesne, or Uintah Counties. The Coalition will follow standard safety designs for each at-grade crossing for proposed warning devices and signs. These designs will follow the Federal Highway Administration Manual on Uniform Traffic Control Devices for Streets and Highways as implemented by UDOT and the American Railway Engineering and Maintenance-of-Way Association standards for railroad warning devices. They will also comply with applicable UDOT, tribal, city, and county requirements.			
Voluntary Mitigation Measures – Grade Crossing Safety	VM-3. For construction of road crossings, when reasonably practical, the Coalition will consult with tribal and local transportation officials regarding detours and associated signs, as appropriate, or maintain at least one open lane of traffic at all times to allow the quick passage of emergency and other vehicles.			
Voluntary Mitigation Measures – Grade Crossing Safety	VM-4. The Coalition will develop a plan to consult with private landowners to determine the final details and reasonable signage for grade crossings on private roads.			
Voluntary Mitigation Measures – Grade Crossing Safety	VM-5. Where practical, at-grade crossings for minor roads and private roads will be combined and consolidated into right-angle, at-grade crossings for safety, and in order to reduce the total the number of highway-rail at-grade crossings.			
Voluntary Mitigation Measures – Grade Crossing Safety	VM-6. The Coalition will consult with affected communities regarding ways to improve visibility at highway-rail at-grade crossings, including by clearing vegetation or installing lights at the crossing during construction.			
Voluntary Mitigation Measures – Hazardous Materials Handling and Spills during Construction	VM-7. Prior to initiating any project-related construction activities, the Coalition will develop a spill prevention, control, and countermeasures plan in consultation with federal, tribal, state and local governments. The plan will specify measures to prevent the release of petroleum products or other hazardous materials during construction activities and contain such discharges if they occur.			
Voluntary Mitigation Measures – Hazardous Materials Handling and Spills during Construction	VM-8. In the event of a spill over the applicable reportable quantity, the Coalition will comply with its spill prevention, control, and countermeasures plan and applicable federal, state, local and tribal regulations pertaining to spill containment, appropriate clean-up, and notifications.			

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Voluntary Mitigation Measures – Hazardous Materials Handling and Spills during Construction	VM-9. The Coalition will require its construction contractor(s) to implement measures to protect workers' health and safety and the environment in the event that undocumented hazardous materials are encountered during construction. The Coalition will document all activities associated with hazardous material spill sites and hazardous waste sites and will notify the appropriate state, local, and tribal agencies according to applicable regulations. The goal of the measures is to ensure the proper handling and disposal of contaminated materials including contaminated soil, groundwater, and stormwater, if such materials are encountered. The Coalition will use disposal methods that comply with applicable solid and hazardous waste regulations.			
Voluntary Mitigation Measures – Hazardous Materials Handling and Spills during Construction	VM-10. The Coalition will ensure that gasoline, diesel fuel, oil, lubricants, and other petroleum products are handled and stored to reduce the risk of spills contaminating soils or surface waters. If a petroleum spill occurs in the project area as a result of rail construction, operation, or maintenance and exceeds specific quantities or enters a water body, the Coalition (or its agents) will be responsible for promptly cleaning up the spill and notifying responsible agencies in accordance with federal, state, and tribal regulations.			
Voluntary Mitigation Measures – Hazardous Materials Transport and Emergency Response	VM-11. The Coalition will prepare a hazardous materials emergency response plan to address potential derailments or spills. This plan will address the requirements of the Pipeline and Hazardous Materials Safety Administration and FRA requirements for comprehensive oil spill response plans. The Coalition will distribute the plan to federal, state, local, and tribal emergency response agencies. This plan shall include a roster of agencies and people to be contacted for specific types of emergencies during rail construction, operation and maintenance activities, procedures to be followed by particular rail employees, emergency routes for vehicles, and the location of emergency equipment.			
Voluntary Mitigation Measures – Hazardous Materials Transport and Emergency Response	VM-12. The Coalition will work with the affected communities to facilitate the development of cooperative agreements with other emergency service providers to share service areas and emergency call response.			
Voluntary Mitigation Measures – Hazardous Materials Transport and Emergency Response	VM-13. After construction is completed, the Coalition will implement a desktop simulation of its emergency response drill procedures with the voluntary participation of local emergency response organizations. If necessary, the Coalition will update the hazardous materials emergency response plan based on the findings and observations of the simulated emergency response.			
Voluntary Mitigation Measures – Hazardous Materials Transport and Emergency Response	VM-14. In the event of a reportable hazardous materials release, the Coalition will notify appropriate federal, state, and tribal environmental agencies as required under federal, state, and tribal law.			
Voluntary Mitigation Measures – Hazardous Materials Transport and Emergency Response	VM-15. The Coalition will comply with FRA, Pipeline and Hazardous Materials Safety Administration, Transportation Security Administration regulations and tribal ordinances or plans applicable to the safe and secure transportation of hazardous materials.			

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Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-16. The Coalition will limit ground disturbance to only the areas necessary for project-related construction activities.			
Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-17. During project-related earth-moving activities, the Coalition will require the contractor to remove topsoil and segregate it from subsurface soils. Where practical, the contractor will also stockpile topsoil to be applied later during reclamation activities in disturbed areas along the right-of-way.			
Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-18. The Coalition will place the topsoil and other excavated soil stockpiles in areas away from environmentally or culturally sensitive areas and will use appropriate erosion control measures on and around stockpiles to prevent or contain erosion.			
Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-19. The Coalition will submit a notice of intent to request permit coverage under Utah Pollutant Discharge Elimination System Construction General Permit UTRC00000 for construction stormwater management.			
Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-20. The Coalition will submit an application for coverage under the National Pollutant Discharge Elimination System stormwater construction permits pursuant to Section 402 of the Clean Water Act for construction stormwater management on tribal land.			
Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-21. The Coalition will develop a stormwater pollution prevention plan, which will include construction Best Management Practices (BMPs) to control erosion and reduce the amount of sediment and pollutants entering surface waters, groundwater, and waters of the United States. The Coalition will require its construction contractor(s) to follow all water quality control conditions identified in all permits, including the Section 404 permit from the U.S. Army Corps of Engineers (Corps) and the Section 401 Water Quality Certification from the Utah Department of Environmental Quality (UDEQ) and the U.S. Environmental Protection Agency (USEPA).			
Voluntary Mitigation Measures – Topography, Geology, and Soils	VM-22. The Coalition will revegetate disturbed areas, where practical and in consultation with the Ute Indian Tribe as applicable, when construction is completed. The goal of reclamation will be the rapid and permanent re-establishment of native groundcover on disturbed areas to prevent soil erosion, where feasible. If weather or seasonal conditions prevent vegetation from being quickly re-established, the Coalition will use measures such as mulching, erosion-control blankets, or dust-control palliatives to prevent erosion until vegetative cover is established. The Coalition will monitor reclaimed areas for 3 years. For areas where efforts to establish vegetative cover have been unsuccessful after 1 year, the Coalition will reseed annually for up to 3 years as needed.			
Voluntary Mitigation Measures – Air Quality	VM-23. Where practical and in consultation with the Ute Indian Tribe as applicable, the Coalition will implement appropriate fugitive-dust controls such as spraying water or other dust treatments in order to reduce fugitive-dust emissions created during project-related construction activities. The Coalition will require its construction contractor(s) to regularly operate water trucks on haul roads to reduce dust generation.			
Voluntary Mitigation Measures – Air Quality	VM-24. The Coalition will work with its contractor(s) to make sure that construction equipment is properly maintained and that mufflers and other			

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	required pollution-control devices are in working condition in order to limit construction-related air pollutant emissions.			
Voluntary Mitigation Measures – Water Resources	VM-25. The Coalition will obtain a permit from the Corps under Section 404 of the Clean Water Act before initiating project-related construction activities in wetlands and other jurisdictional waters of the United States. The Coalition will comply with all conditions of the Section 404 permit.			
Voluntary Mitigation Measures – Water Resources	VM-26. The Coalition will obtain a Section 401 Water Quality Certification from the State of Utah and USEPA. The Coalition will incorporate the conditions of the Section 401 Water Quality Certification into its construction contract specifications and will monitor the project for compliance.			
Voluntary Mitigation Measures – Water Resources	VM-27. The Coalition will minimize impacts on wetlands to the extent practicable in the final design of the selected alternative. After all practicable steps have been taken to minimize impacts on wetlands, the Coalition agrees to prepare a compensatory mitigation plan for any remaining wetland impacts in consultation with the Ute Indian Tribe where applicable. Compensatory mitigation may include any one or a combination of the following five methods: restoring a previously existing wetland or other aquatic site, enhancing an existing aquatic site's functions, establishing (that is, creating) a new aquatic site, preserving an existing aquatic site, and/or purchasing credits from an authorized wetland mitigation bank.			
Voluntary Mitigation Measures – Water Resources	VM-28. Bridges at perennial streams will be designed to maintain a natural substrate.			
Voluntary Mitigation Measures – Water Resources	VM-29. The Coalition will obtain stream alteration permits from the Utah Division of Water Rights for crossing waters of the state, and any applicable tribal permits, and will comply with all conditions of the permits.			
Voluntary Mitigation Measures – Water Resources	VM-30. The Coalition will construct stream crossings during low-flow periods, when practical.			
Voluntary Mitigation Measures – Water Resources	VM-31. When practical and in consultation with the Ute Indian Tribe where applicable, the Coalition will relocate natural streams using bioengineering methods, where relocation is needed and is unavoidable.			
Voluntary Mitigation Measures – Water Resources	VM-32. For streams and rivers with a floodplain regulated by the Federal Emergency Management Agency or the Ute Indian Tribe, the Coalition will design the stream crossing with the goal of not impeding floodwaters and not raising water surface elevations to levels that would change the regulated floodplain boundary. If flood elevations change, the Coalition will coordinate with Federal Emergency Management Agency and/or tribal or local floodplain managers to obtain a Letter of Map Revision where construction of bridges, culverts, or embankments results in an unavoidable increase greater than 1 foot to the 100- year water surface elevations.			
Voluntary Mitigation Measures – Biological Resources	VM-33. The Coalition will comply with any conditions and mitigation commitments contained in a biological opinion for sensitive species that could potentially be impacted by the project.			

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Voluntary Mitigation Measures – Biological Resources	VM-34. The Coalition will require its contractor(s) to comply with the requirements of the Migratory Bird Treaty Act in consultation with the Ute Indian Tribe as applicable. The following measures will be conducted by the Coalition and/or its contractor(s). a. Where practical, any ground-disturbing, ground-clearing activities or vegetation treatments will be performed before migratory birds begin nesting or after all young have fledged. b. If activities must be scheduled to start during the migratory bird breeding season, the Coalition will take steps to prevent migratory birds from establishing nests in the potential impact area. Birds can be hazed to prevent them from nesting until egg(s) are present in the nest. The Coalition or its agents will not haze or exclude nest access for migratory birds and other sensitive avian species. c. If activities must be scheduled during the migratory bird breeding season, a qualified biologist will perform a site-specific survey for nesting birds starting no more than 7 days prior to ground-disturbing activities or vegetation treatments. Birds with eggs or young will not be hazed, and nests with eggs or young will not be moved until the young are no longer dependent on the nest. A qualified biologist will confirm that all young have fledged. d. If nesting birds are found during the survey, the Coalition will establish appropriate seasonal or spatial buffers around nests. Vegetation treatments or ground-disturbing activities within the buffer areas will be postponed, where feasible, until the birds have left the nest. A qualified biologist will confirm that all young have fledged.			
Voluntary Mitigation Measures – Biological Resources	VM-35. The Coalition will execute a Mitigation Agreement with the Utah Division of Wildlife Resources (UDWR) to address impacts within the Carbon Sage-grouse Management Area (CSGMA). The Coalition has discussed several potential mitigation strategies with UDWR and other local, state, tribal and federal stakeholders during the EIS process. The final CSGMA Mitigation Agreement will define the appropriate mitigation ratio for the project type and its impacts and the final mitigation approach.			
Voluntary Mitigation Measures – Biological Resources	VM-36. The Coalition shall comply with the Ute Indian Tribe's Greater Sage-Grouse Conservation Ordinance as applicable.			
Voluntary Mitigation Measures – Biological Resources	VM-37. If the selected alternative impacts U.S. Bureau of Land Management (BLM) lands, the Coalition will request that BLM join as a signatory to the CSGMA Mitigation Agreement.			
Voluntary Mitigation Measures – Biological Resources	VM-38. The Coalition will prepare a noxious and invasive weed control plan in consultation with the Ute Indian Tribe as applicable. Where practical, the Coalition will include the policies and strategies in Utah's Strategic Plan for Managing Noxious and Invasive Weeds when designing response strategies for noxious and invasive weeds.			
Voluntary Mitigation Measures – Biological Resources	VM-39. The Coalition will comply with any conditions and mitigation commitments contained in a biological opinion for sensitive plant species that could potentially be impacted by the project.			Preconstruction surveys for sensitive plant species are in progress.

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Voluntary Mitigation Measures – Biological Resources	VM-40. The Coalition will work with UDWR, the Ute Indian Tribe, and adjacent landowners to define areas of the right-of-way that can be left without fences to maintain big game migration corridors.			
Voluntary Mitigation Measures – Biological Resources	VM-41. Where practical and necessary, the Coalition will install wildlife-safe fences to confine livestock within grazing allotments.			
Voluntary Mitigation Measures – Cultural Resources	VM-42. The Coalition will work with the Ute Indian Tribe and others to develop training materials to educate construction supervisors about the importance of protecting cultural resources and the procedures for handling undocumented discoveries. The Coalition will make reasonable efforts to include the Ute Indian Tribe in the presentation of these materials.			
Voluntary Mitigation Measures – Cultural Resources	VM-43. The Coalition will comply with the requirements of the Programmatic Agreement being developed by the Office of Environmental Analysis (OEA), the Advisory Council on Historic Preservation, Utah State Historic Preservation Office, Ute Indian Tribe, and other federal and state agencies in consultation with federally recognized tribes and other consulting parties.			
Voluntary Mitigation Measures – Land Use	VM-44. If temporary construction easements on private property are needed, the Coalition will document the preconstruction conditions and, to the extent practical, will restore the land to its preconstruction condition after construction is complete.			
Voluntary Mitigation Measures – Land Use	VM-45. The Coalition will consult with landowners regarding grazing allotments and will install temporary fences during construction to allow continued grazing, where practicable. Once construction is complete, the Coalition will replace all permanent fences removed during construction.			
Voluntary Mitigation Measures – Land Use	VM-46. Where practical, the Coalition will maintain livestock access to water sources or will relocate water sources, maintain vehicle and livestock access to grazing allotments, and install safety fences and signs for grazing allotment entrances and exits to enable continuance of livestock operations within grazing allotments.			
Voluntary Mitigation Measures – Land Use	VM-47. The Coalition will secure agreements with utilities to establish responsibility for protecting or relocating existing utilities, if impacted by construction.			
Voluntary Mitigation Measures – Land Use	VM-48. The Coalition will coordinate with water districts to develop irrigation infrastructure protection or relocation plans, if irrigation infrastructure will be impacted by construction.			
Voluntary Mitigation Measures – Community Outreach	VM-49. The Coalition will appoint a community liaison to consult with affected communities, businesses, and agencies and seek to develop cooperative solutions to local concerns regarding construction activities.			
Voluntary Mitigation Measures – Community Outreach	VM-50. The Coalition will appoint a tribal community liaison to address the needs and concerns of Ute Indian Tribe members and communities and seek to develop cooperative solutions to concerns regarding construction activities and rail operations.			
Voluntary Mitigation Measures – Community Outreach	VM-51. The Coalition will maintain a project website throughout the duration of construction to provide regular updates regarding construction progress and schedule.			

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Voluntary Mitigation Measures – Community Outreach	VM-52. The Coalition will install construction warning and detour signs throughout the corridor and at recreation sites around the project area as needed.			
Voluntary Mitigation Measures – Noise and Vibration	VM-53. The Coalition, in consultation with the Ute Indian Tribe, will comply with FRA regulations (49 Code of Federal Regulations [C.F.R.] Part 210) establishing decibel limits for train operation.			
Voluntary Mitigation Measures – Noise and Vibration	VM-54. The Coalition will work with its contractor(s) to make sure that project-related construction and maintenance vehicles are maintained in good working order with properly functioning mufflers to control noise.			
Voluntary Mitigation Measures – Recreation	VM-55. If needed for the selected alternative, the Coalition will obtain approval from the Forest Service and will follow the conditions of the permit regarding access to, or temporary closure of, recreational features during construction.			
Voluntary Mitigation Measures – Recreation	VM-56. The Coalition will work with its construction contractor to maintain access to Forest Service roads during construction, where feasible.			
Additional Mitigation Measures – Vehicle Safety and Delay	VSD-MM-1. The Coalition shall design and construct any new temporary or permanent access roads and road realignments to comply with the reasonable requirements of the UDOT Roadway Design Manual (UDOT 2020), other applicable road construction guidance (e.g., county road right-of-way encroachment standards), and land management agency or landowner requirements (e.g., BLM H-9113-1 Road Design Handbook) regarding the establishment of safe roadway conditions.			
Additional Mitigation Measures – Vehicle Safety and Delay	VSD-MM-2. During project-related construction activities, the Coalition and its contractors shall comply with speed limits and applicable laws and regulations when operating vehicles and equipment on public roadways.			
Additional Mitigation Measures – Vehicle Safety and Delay	VSD-MM-3. The Coalition shall obtain and abide by the reasonable requirements of applicable permits and approvals for any project-related construction activities within UDOT rights-of way or state highways where UDOT has jurisdiction and off-system roads that are maintained by UDOT.			
Additional Mitigation Measures – Vehicle Safety and Delay	VSD-MM-4. For each of the public at-grade crossings on the rail line, the Coalition shall provide and maintain permanent signs prominently displaying both a toll-free telephone number and a unique grade-crossing identification number in compliance with Federal Highway Administration regulations (23 C.F.R. Part 655). The toll-free number would enable drivers to report promptly any accidents, malfunctioning warning devices, stalled vehicles, or other dangerous conditions.			
Additional Mitigation Measures – Vehicle Safety and Delay	VSD-MM-5. The Coalition shall make Operation Lifesaver educational programs available to communities, schools, and other organizations located along the rail line. Operation Lifesaver is a nationwide, nonprofit organization that provides public education programs to help prevent collisions, injuries, and fatalities at highway/rail grade crossings.			
Additional Mitigation Measures – Vehicle Safety and Delay	VSD-MM-6. The Coalition shall consult with private landowners and communities affected by new at-grade crossings or that are adjacent to the rail line to identify measures to mitigate impacts on emergency access and evacuation routes and incorporate the results of this consultation into the Coalition's emergency response plan. These measures may include			

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	identifying new ingress and egress routes that could be used to improve safety in the event of an emergency.			
Additional Mitigation Measures – Rail Operations Safety	ROS-MM-1. In the event of a reportable hazardous materials release, the Coalition shall notify appropriate local (county and city) agencies in addition to appropriate federal, state, and tribal environmental agencies as required under federal, state, and tribal law.			
Additional Mitigation Measures – Rail Operations Safety	ROS-MM-2. As part of routine rail inspections or at least twice annually, the Coalition shall use appropriate technology to inspect both track geometry (horizontal and vertical layout of tracks) and local terrain conditions to identify problems with either the track or the surrounding terrain. The track inspection shall be designed and conducted so as to identify changes in track geometry that could indicate broken rails or welds, misalignments, and other technical issues with the track itself. The visual inspection of terrain shall be designed and conducted so as to identify evidence of subsidence, rockslides, undermining of the track, erosion, changes in runoff patterns, or other issues that could lead to structural weakening of the track bed and potentially cause an accident.			
Additional Mitigation Measures – Water Resources	WAT-MM-1. To the extent practicable, the Coalition shall design culverts and bridges to maintain existing surface water drainage patterns, including hydrology for wetland areas, and not cause or exacerbate flooding. Project-related supporting structures (e.g., bridge piers) shall be designed to minimize scour (sediment removal) and increased flow velocity, to the extent practicable. The Coalition shall consider use of multi-stage culvert designs in flood-prone areas, as appropriate.			
Additional Mitigation Measures – Water Resources	WAT-MM-2. The Coalition shall design culverts and bridges on land managed by federal, state, or tribal agencies to comply with reasonable applicable agency requirements. All surface water crossings on land under the jurisdiction of the Ute Indian Tribe shall be designed in consultation with the tribe's Business Committee, Tribal Water Quality Department, the Tribal Fish and Wildlife Department, and the Tribal Water Resources Department to ensure that those crossings would not adversely affect the quality of surface waters on the tribe's Uintah and Ouray Reservation.			
Additional Mitigation Measures – Water Resources	WAT-MM-3. The Coalition shall design all stream realignments in consultation with the Corps and Utah Division of Water Rights as part of the Section 404 permit mitigation plan development and Utah Stream Alteration Program, respectively, to ensure that effects on stream functions are taken into account and minimized. The Coalition shall also consult with the Ute Indian Tribe through the tribe's Business Committee, Tribal Water Quality Department, the Tribal Fish and Wildlife Department, and the Tribal Water Resources Department regarding the design of stream realignments to ensure that those realignments would not adversely affect the quality of surface waters on the tribe's Uintah and Ouray Reservation. To the extent practicable, the Coalition shall design realigned streams to maintain existing planform, geomorphology, bed material and flows.			
Additional Mitigation Measures – Water Resources	WAT-MM-4. The Coalition shall design, construct, and operate the rail line and associated facilities to maintain existing water patterns and flow conditions and provide long-term hydrologic stability by conforming to			

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	natural stream gradients and stream channel alignment and avoiding altered subsurface flow (i.e., shallow aquifer subsurface flow) to the extent practicable.			
Additional Mitigation Measures – Water Resources	WAT-MM-5. During project-related construction, the Coalition shall minimize, to the extent practicable, soil compaction and related effects (e.g., increase runoff and erosion), provide surface treatments to minimize soil compaction (e.g., break up compacted soils during reclamation to promote infiltration), and take actions to promote vegetation regrowth after the facilities (e.g., temporary staging areas) are no longer needed to support construction.			
Additional Mitigation Measures – Water Resources	WAT-MM-6. During project-related construction, the Coalition shall implement erosion prevention, sediment control, and runoff control and conveyance BMPs to limit the movement of soils and sediment-laden runoff. On lands managed by federal, state, or tribal agencies, the Coalition shall design and implement these BMPs in consultation with the applicable agency. BMPs may include, but are not limited to, seeding disturbed ground and stockpiled soil, seed mixes, silt fences, sediment traps, ditch checks, and erosion monitoring. The Coalition shall coordinate with the appropriate land management agency, private landowner, or the Ute Indian Tribe to select seed mixes for use in restoration and reclamation activities. This may require consultation with range and ecology specialists to determine seed mixes and timing of seeding appropriate to the ecological site. Within Ashley National Forest, disturbed ground area, including stockpiled soil for later reclamation, shall be seeded to prevent erosion and the influx of weeds and invasive species. The Forest Rangeland Management or Ecology specialists shall be consulted for the appropriate seed mix and timing of seeding on Forest Service lands.			
Additional Mitigation Measures – Water Resources	WAT-MM-7. During project-related construction, the Coalition shall use temporary barricades, fencing, and/or flagging around sensitive habitats (e.g., wetlands, flowing streams) to contain project-related impacts within the construction area. The Coalition shall locate staging areas in previously disturbed sites to the extent practicable, avoiding sensitive habitat areas whenever possible.			
Additional Mitigation Measures – Water Resources	WAT-MM-8. The Coalition shall remove all project-related construction debris (including construction materials and soils) from surface waters and wetlands as soon as practicable following construction.			
Additional Mitigation Measures – Water Resources	WAT-MM-9. The Coalition shall implement stormwater BMPs to convey, filter, and dissipate runoff from the rail line during rail operations. These could include, but would not be limited to, vegetated swales, vegetated filter strips, streambank stabilization, and channelized flow dissipation, as appropriate. On lands managed by federal, state, or tribal agencies, the Coalition shall design and implement stormwater BMPs in consultation with the applicable agency.			
Additional Mitigation Measures – Water Resources	WAT-MM-10. During rail operations, the Coalition shall ensure that all project-related culverts and bridges are clear of debris to avoid flow blockages, flow alteration, and increased flooding. The Coalition shall inspect all project-related bridges and culverts semi- annually (or more			

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	frequently, as seasonal flows dictate) for debris accumulation and shall remove and properly dispose of debris promptly.			
Additional Mitigation Measures – Water Resources	WAT-MM-11. To address the closing of active groundwater wells and permanent impacts on springs, the Coalition shall consult with the owner, the Utah Division of Water Rights, and the Ute Indian Tribe, as appropriate, to attempt to replace each active well closed with a new well and to mitigate the water rights associated with springs, as practicable.			
Additional Mitigation Measures – Water Resources	WAT-MM-12. The Coalition shall consider potential future changes in precipitation patterns caused by climate change when designing surface water crossings (bridges and culverts) and other rail line features.			
Additional Mitigation Measures – Biological Resources	BIO-MM-1. The Coalition shall implement appropriate measures to reduce collision risks for birds resulting from project-related power communications towers. The Coalition shall incorporate the design recommendations in the U.S. Fish and Wildlife Service (USFWS) Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance, and Decommissioning (USFWS 2018) to avoid or minimize the risk of bird mortality at communications towers.			
Additional Mitigation Measures – Biological Resources	BIO-MM-2. During project-related construction, the Coalition shall comply with any federal, state, tribal, or local in-water work windows and timing restrictions for the protection of fish species, and other reasonable requirements of in-water work permits issued by UDWR and the Corps.			
Additional Mitigation Measures – Biological Resources	BIO-MM-3. During project-related construction, the Coalition shall use a bubble curtain or other noise-attenuation method (e.g., wood or nylon pile caps) when installing or proofing pilings below the ordinary high water line of a fish-bearing stream to minimize underwater sound impacts on fish.			
Additional Mitigation Measures – Biological Resources	BIO-MM-4. During project-related construction, the Coalition shall use a block-net to remove and exclude fish from in-water work areas. The Coalition shall deploy the block-net toward the water from land, with the two ends of the net maintained on shore and the middle portion of the net deployed in the water. Any fish handling, exclusion, and removal operation shall be consistent with any reasonable requirements of in-water permits from UDWR and the Corps.			
Additional Mitigation Measures – Biological Resources	BIO-MM-5. The Coalition shall minimize, to the extent practicable, the area and duration of project-related construction activities within riparian areas and along streambanks. Where construction activities within riparian areas or along streambanks are unavoidable, the Coalition shall implement appropriate erosion control materials to stabilize soil and reduce erosion. Following the completion of project-related construction on a segment of rail line, the Coalition shall promptly restore and revegetate riparian areas using native vegetation.			
Additional Mitigation Measures – Biological Resources	BIO-MM-6. The Coalition shall design culverts and bridges to allow aquatic organisms to pass relatively unhindered, to the extent practicable.			
Additional Mitigation Measures – Biological Resources	BIO-MM-7. The Coalition shall develop and implement a wildfire management plan in consultation with appropriate state, tribal, and local agencies, including local fire departments. The plan shall incorporate specific information about operations, equipment, and personnel on the rail line that			

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	might be of use in case a fire occurs and shall evaluate and include as appropriate site-specific techniques for fire prevention and suppression. The plan shall also include a commitment for the Coalition and consulting parties to revisit the plan on a regular basis (e.g., every 5 years; but to be determined during plan development) to determine if environmental conditions have changed (e.g., drier conditions) to the point where aspects of the plan would need to be revised to address those changing conditions.			
Additional Mitigation Measures – Biological Resources	BIO-MM-8. The Coalition shall protect bald and golden eagles by adhering to the Bald and Golden Eagle Protection Act. In addition, the Coalition shall follow the USFWS National Bald Eagle Management Guidelines (USFWS 2007), as applicable.			
Additional Mitigation Measures – Biological Resources	BIO-MM-9. The Coalition shall comply with the terms and conditions of the USFWS Biological Opinion for the protection of federally listed threatened and endangered plants and animals that could be affected by the rail line, and to ensure compliance with Endangered Species Act Section 7.			
Additional Mitigation Measures – Biological Resources	BIO-MM-10. The Coalition shall implement the requirements of the Ute Indian Tribe for minimizing impacts on wildlife, fish, and vegetation on Tribal trust lands.			
Additional Mitigation Measures – Biological Resources	BIO-MM-11. Prior to project-related construction, the Coalition shall acquire and abide by the reasonable requirements of all appropriate federal and state permits to possess, relocate, or disassemble a bald or golden eagle nest, and/or work within 0.5 mile of a bald or golden eagle nest, regardless of whether the nest is active or inactive. The Coalition shall also follow the guidelines for avoiding and minimizing impacts set out in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances for the protection of bald and golden eagles, as applicable.			
Additional Mitigation Measures – Biological Resources	BIO-MM-12. Rail employees engaged in routine rail line inspections that observe carcasses along the rail line shall remove carcasses away from the rail line to minimize potential eagle strikes. Carcass data shall be recorded, including species, location, and number, and submitted to UDWR. The Coalition will consult with UDWR to determine the best way to submit this data and the frequency at which it will be transmitted.			
Additional Mitigation Measures – Biological Resources	BIO-MM-13. The Coalition shall abide by the BLM Utah Greater Sage-Grouse Approved Resource Management Plan Amendment for approved Action Alternatives that affect BLM land, and will follow the reasonable requirements of the Utah Conservation Plan for Greater Sage-Grouse.			
Additional Mitigation Measures – Biological Resources	BIO-MM-14. During project-related construction, the Coalition shall employ ecologically sound methods to remove all cleared vegetation and green debris from construction areas, including trees from woodland and timber clearing. On lands managed by federal, state, or tribal agencies, the Coalition shall consult with the appropriate agencies regarding methods for removal or cleared vegetation and green debris and shall implement those agencies' requirements.			
Additional Mitigation Measures – Biological Resources	BIO-MM-15. Prior to any project-related construction, the Coalition shall consult with the appropriate County Weed Boards/Departments and the Ute Indian Tribe to develop and implement a plan to address the spread and control of nonnative invasive plants during project-related construction. For			

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	any construction activities on lands managed by federal, state, or tribal agencies, the Coalition shall seek input on the plan from the appropriate land management agency. The plan shall incorporate the reasonable requirements and recommendations of those agencies and shall identify and address 1) planned seed mixes, 2) weed prevention and eradication procedures, 3) equipment cleaning protocols, 4) revegetation methods, 5) protocols for monitoring revegetation, and 6) ongoing inspection of the rail right-of-way for noxious weeds and invasive species during rail operations.			
Additional Mitigation Measures – Biological Resources	BIO-MM-16. If the Surface Transportation Board (Board) authorizes the Indian Canyon Alternative or Whitmore Park Alternative, the Coalition shall comply with the reasonable mitigation conditions imposed by the Forest Service in any special use permit allowing the Coalition to cross National Forest System Lands, including complying with the USDA Forest Service Guide to Noxious Weed Prevention Practices and the Ashley National Forest Noxious Weeds Management Supplement.			
Additional Mitigation Measures – Biological Resources	BIO-MM-17. Prior to any project-related construction, the Coalition shall consult with the Ute Indian Tribe, USFWS, and UDWR to develop and implement a reclamation and revegetation plan for areas that would be temporarily disturbed by construction activities. For any construction activities on lands managed by federal, state, or tribal agencies, the Coalition shall seek input on the plan from the appropriate agency. The reclamation and revegetation plan shall incorporate the reasonable requirements and recommendations of those agencies and shall clearly identify and address 1) the areas to be reclaimed and revegetated; 2) the proposed reclamation and revegetation materials, methods, and timing; and 3) the proposed monitoring schedule and contingency plans.			
Additional Mitigation Measures – Biological Resources	BIO-MM-18. The Coalition shall not use bird hazing (or scaring) techniques around documented leks in the Carbon SGMA during construction.			
Additional Mitigation Measures – Biological Resources	BIO-MM-19. The Coalition shall consult with the Ute Indian Tribe, UDWR, OEA, and appropriate land management agencies to develop and implement a big game movement corridor crossing plan. The plan shall address the need for dedicated big game crossings of Docket No. FD 36284 52 the rail line, the need to limit fencing (if applicable), and the need for additional data collection. The plan shall specifically evaluate the use of big game overpasses or underpasses (including standards for design), wildlife friendly fencing, reduced train speeds in high-risk areas, and sound signaling and sound barriers in collision hotspots. The plan shall use the latest available big game movement corridor data from UDWR and the Ute Indian Tribe.			
Additional Mitigation Measures – Biological Resources	BIO-MM-20. The Coalition shall comply with the provisions of the Final Mitigation Approach and Agreement for Potential Impacts to Greater Sage-grouse executed by the Coalition and UDWR.			
Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-1. The Coalition shall design and construct the rail line to balance cut and fill earthwork quantities, to the extent practicable, in order to minimize the quantities of materials required to be excavated, transported, or placed off site.			

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Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-2. The Coalition shall conduct geotechnical investigations to identify soils and bedrock in cut areas with potential for mass movement or slumping. The geologic hazard investigations shall be conducted in accordance with Utah Geological Survey Circular 122. Where appropriate, the Coalition shall implement engineering controls to avoid mass movement or slumping. If mass movement or slumping of soils or bedrock occurs during project-related construction, the Coalition shall promptly institute appropriate remedial actions. The Coalition shall periodically monitor the railbed during operations to identify changes related to use, cumulative effects of weight and vibration, and changes in underlying soils to prevent deterioration from settling, deformation, collapse, and erosion.			
Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-3. The Coalition shall conduct geotechnical investigations to identify areas within the rail right-of-way where soils with high corrosivity to concrete or steel could affect the rail line. The Coalition shall implement appropriate site-specific measures to address the soil corrosivity in areas identified during the geotechnical investigations, potentially including replacing soils with high corrosivity with non-corrosive engineered soils, as applicable. If soil materials are removed and replaced due to corrosivity to steel or concrete, the Coalition shall consult with the appropriate land management agencies to determine the sites for disposal and the appropriate replacement soil materials. All replacement soil materials shall be certified weed-free engineered material, or shall be checked for the presence of weeds and sprayed for weeds to prevent bringing in invasive species.			
Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-4. The Coalition shall conduct geotechnical studies to identify unmapped abandoned mines that could affect the rail line and shall take actions to appropriately stabilize areas where unmapped mines are identified.			
Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-5. The Coalition shall conduct geotechnical investigations to identify areas within the rail right-of-way that are at risk of seismically induced liquefaction. The geologic hazard investigations shall be conducted in general accordance with Utah Geological Survey Circular 122. The Coalition shall implement appropriate site-specific measures to minimize the risk of liquefaction in areas identified during the geotechnical investigations, including replacing soils subject to liquefaction with engineered soils that are not prone to liquefaction, as applicable. If soil materials are removed and replaced due to liquefaction hazards, the Coalition shall consult with the appropriate land management agencies to determine the sites for disposal and the appropriate replacement soil materials. All replacement soil materials shall be certified weed-free engineered material, or shall be checked for the presence of weeds and sprayed for weeds to prevent bringing in invasive species.			
Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-6. The Coalition shall design and construct any tunnels in accordance with applicable OSHA guidelines for underground construction (OSHA 2003). Conformance shall include ventilation, air monitoring, and emergency procedures.			
Additional Mitigation Measures – Geology,	GEO-MM-7. In consultation with applicable land management agencies and other agencies with expertise in avalanche mitigation, the Coalition shall			

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Soils, Seismic Hazards, and Hazardous Waste Sites	identify areas with a high risk of snow slab avalanche that have the potential to affect the rail line and investigate the use of nonstructural and structural methods to control the effects of slab avalanches. Nonstructural methods can include triggering and closures. Structural methods can include avalanche dams and retarding structures, starting zone structures, and avalanche sheds.			
Additional Mitigation Measures – Geology, Soils, Seismic Hazards, and Hazardous Waste Sites	GEO-MM-8. Prior to construction, the Coalition shall conduct geophysical investigations to identify risks associated with the Duchesne-Pleasant Valley fault that could affect the rail line.			
Additional Mitigation Measures – Noise and Vibration	NV-MM-1. Before undertaking any project-related construction activities, the Coalition shall, with the approval of OEA and in consultation with appropriate tribal and local agencies, develop and implement a construction noise and vibration control plan to minimize project-related construction noise and vibration affecting residences along the rail line, including noise and vibration from general construction equipment, specialized equipment, and tunnel construction. For tunnel construction in particular, the plan shall include estimates of construction noise and vibration levels and identify measures that shall be taken if predicted construction noise or vibration levels exceed Federal Transit Administration (FTA) criteria. The Coalition shall also conduct noise and vibration monitoring for receptors that would exceed FTA criteria. The Coalition shall designate a noise control officer to develop the construction noise and vibration plan, whose qualifications shall include at least 5 years of experience with major construction noise projects, and board certification from the Institute of Noise Control Engineering or registration as a Professional Engineer in Mechanical Engineering or Civil Engineering.			
Additional Mitigation Measures – Noise and Vibration	NV-MM-2. The Coalition shall minimize, to the extent practicable, construction-related noise disturbances in residential areas. The Coalition shall avoid nighttime construction and pile-driving near residential areas and employ quieter vibratory pile-driving or noise curtains for project-related construction where FTA construction noise criteria are exceeded.			
Additional Mitigation Measures – Noise and Vibration	NV-MM-3. In consultation with OEA and appropriate tribal and local agencies, the Coalition shall employ reasonable and feasible noise mitigation for receptors that would experience noise impacts at or greater than the regulatory analytical threshold of 65 day-night average sound level (DNL) and an increase of 3 A-weighted decibels (dBA). The design goal for noise mitigation shall be a 10 dBA noise reduction. Using industry standard loudspeaker testing, the building sound insulation performance shall be determined in accordance with ASTM 966-90, Standard Guide for Field Measurements of Airborne Sound Insulation of Building Facades and Façade Elements. The calculated noise reduction shall be at least 5 dBA. Should the calculated noise reduction be less than 5 dBA then no mitigation is warranted as the receptor has sufficient sound insulation.			
Additional Mitigation Measures – Noise and Vibration	NV-MM-4. The Coalition shall install and properly maintain rail and rail beds on the rail line according to American Railway Engineering and Maintenance of Way Association standards and shall regularly maintain locomotives, keeping mufflers in good working order to control noise. The			

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	Coalition shall install rail lubrication systems at curves along the rail line where doing so would reduce noise associated with wheel squeal for residential or other noise-sensitive receptors. The Coalition shall regularly inspect and maintain rail car wheels on trains that operate on the rail line in good working order and minimize the development of wheel flats (where a round wheel is flattened, leading to a clanking sound when a rail car passes).			
Additional Mitigation Measures – Air Quality	AQ-MM-1. In consultation with the TriCounty Health Department and the Ute Indian Tribe as applicable, the Coalition shall implement appropriate fugitive-dust controls such as spraying water or other dust treatments to reduce fugitive-dust emissions created during project-related construction activities. During project-related construction, the Coalition shall ensure that construction contractors offer workers daily transportation to the work site from a central location to minimize vehicular traffic on unpaved roads in the area and thereby reduce exhaust emissions and fugitive dust.			
Additional Mitigation Measures – Air Quality	AQ-MM-2. The Coalition shall ensure that all engine-powered equipment and vehicles used in construction, operation, and maintenance of the rail line are subject to a regular inspection and maintenance schedule in order to minimize air pollutant emissions, greenhouse gas emissions, and fuel consumption. Preventive maintenance activities shall include, but shall not be limited to, the following actions: • Replacing oil and oil filters as recommended by manufacturer instructions. • Maintaining proper tire pressure in on-road vehicles. • Replacing worn or end-of-life parts. • Scheduling routine equipment service checks.			
Additional Mitigation Measures – Air Quality	AQ-MM-3. The Coalition shall develop and implement an anti-idling policy for both rail construction and operations and ensure that equipment operators receive training on best practices for reducing fuel consumption to reduce project-related air emissions. The anti-idling policy shall include required warm-up periods for equipment and prohibit idling beyond these periods. The policy shall define any exceptions where idling is permitted for safety or operational reasons, such as when ambient temperatures are below levels required for reliable operation. In addition, the policy shall include provisions addressing the use of technologies such as idle management systems or automatic shutdown features, as appropriate.			
Additional Mitigation Measures – Air Quality	AQ-MM-4. During project-related construction, the Coalition shall require that construction contractors use renewable diesel fuel to minimize and control greenhouse gas emissions from diesel-fueled construction equipment and on-road diesel trucks, to the extent practicable. Renewable diesel refers to biofuel that is chemically identical to diesel derived from petroleum, meets the most recent ASTM D975 specification for Ultra Low Sulfur Diesel, and has a carbon intensity no greater than 50 percent of traditional diesel. If the Coalition believes that renewable diesel is not available at a reasonable price from suppliers within 200 miles of the construction site, the Coalition may request an exemption from OEA to instead require construction contractors use traditional diesel fuel with the highest biodiesel content reasonably			

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	available. The Coalition shall document the availability and price of renewable diesel to meet project demand in consultation with OEA.			
Additional Mitigation Measures – Air Quality	AQ-MM-5. The Coalition shall consider procuring alternative engine and fuel technologies, e.g., hybrid-electric diesel equipment, for construction and operation of the rail line to reduce greenhouse gas emissions.			
Additional Mitigation Measures – Air Quality	AQ-MM-6. The Coalition shall evaluate the feasibility of installing solar and wind microgeneration technologies on site offices, lodgings, and other project-related facilities to reduce the use of grid or privately generated electricity to reduce greenhouse gas emissions. As part of its evaluation, the Coalition shall consider the suitability of site conditions and location of solar and wind generation and the technical and economic feasibility of supplementing site electricity demands with renewable power.			
Additional Mitigation Measures – Air Quality	AQ-MM-7. The Coalition shall post signage and/or fencing during project-related construction, including tunnel construction, to ensure that members of the public would be unable to enter areas within the construction easement that could experience temporary adverse air quality impacts.			
Additional Mitigation Measures – Air Quality	AQ-MM-8. To the extent practicable, the Coalition shall avoid conducting project-related construction activities that could result in the emission of ozone precursors within the Uinta Basin Ozone Nonattainment Area in January and February to minimize emissions of ozone precursor chemicals in the nonattainment area. Construction-related activities covered by this measure include the use of diesel-powered construction equipment and the transportation by truck of materials to construction sites. If the Coalition believes that project-related construction activities that could result in the emission of ozone precursors in the Uinta Basin Ozone Nonattainment Area during January and February cannot practically be avoided during one or more years of the construction period, the Coalition shall consult with OEA and UDEQ's Air Quality Division to identify and implement other appropriate ozone-reduction activities for those months.			
Additional Mitigation Measures – Energy	ENGY-MM-1. The Coalition shall design any project-related road realignments to allow continued vehicle access to existing fixed energy facilities, such as oil pads, during and following construction of the rail line. The Coalition shall work with the owners of the energy facilities to coordinate continued access during construction and rail operations.			
Additional Mitigation Measures – Energy	ENGY-MM-2. The Coalition shall ensure that any oil and gas-producing wells within the rail right-of-way are plugged and abandoned in accordance with Utah Administrative Code Rule R649-3-24, Plugging and Abandonment of Wells. The Coalition shall consult with the Utah Division of Oil, Gas, and Mining prior to undertaking any construction activities that could affect existing wells and shall follow that agency's reasonable recommendations regarding appropriate safety procedures for the abandonment of wells.			
Additional Mitigation Measures – Energy	ENGY-MM-3. The Coalition shall design any crossings or relocations of pipelines or electrical transmission lines in accordance with applicable Utah Division of Public Utilities' regulations and guidelines. The Coalition shall consult with appropriate utility providers to develop a plan to ensure that construction activities that could affect existing electrical transmission lines			

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	or energy pipelines avoid any interruption of utility service to customers to the extent possible.			
Additional Mitigation Measures – Energy	ENGY-MM-4. The Coalition shall consult with oil and gas operators of existing facilities (e.g., wells, well pads, gathering pipelines, access roads) that would be affected by construction and operation of the rail line during the final engineering and design phase for the rail line and prior to undertaking project-related construction activities to develop appropriate measures to mitigate impacts on these facilities. These measures may include, but are not limited to, adjusting the location of construction activities to avoid oil and gas facilities or relocating the facilities if impacts cannot be avoided during construction and operations.			
Additional Mitigation Measures – Paleontological Resources	PALEO-MM-1. The Coalition shall contract with a qualified paleontologist to develop and implement a paleontological resources monitoring and treatment plan to mitigate potential impacts on paleontological resources on lands classified as Potential Fossil Yield Classification 3, 4 or 5. The plan shall include the following requirements: • A preconstruction survey where appropriate to describe and recover paleontological resources found on the surface. • Monitoring of ground-disturbing activities during construction to recover paleontological resources, including inspection of spoils piles created by tunnel construction. • Identification, preparation, and documentation of fossils collected during surveys or monitoring. • Curation and deposition of significant paleontological resources into a federally approved repository. • Increasing public awareness about the scientific importance of paleontological resources by developing web-based education material, interpretive displays, or other means.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-1. The Coalition shall consult with the Ute Indian Tribe during the final engineering and design phase of the rail line and prior to undertaking any project-related construction to ensure that construction and operation of the rail line would not significantly impact land uses on land under the tribe's jurisdiction.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-2. The Coalition shall implement any mitigation measures imposed by the Ute Indian Tribe as a condition of a right-of-way across Tribal trust lands.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-3. If the Indian Canyon Alternative or the Wells Draw Alternative is authorized by the Board, the Coalition shall adhere to the reasonable mitigation conditions imposed by BLM in any right-of-way granted by BLM allowing the Coalition to cross BLM lands and shall ensure that construction and operation of the rail line is in compliance with applicable Resource Management Plans, including any potential amendments to those plans, for BLM lands that the rail line would cross.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-4. If the Indian Canyon Alternative or the Whitmore Park Alternative is authorized by the Board, the Coalition shall adhere to the reasonable mitigation conditions imposed by the Forest Service in any special use permit allowing the Coalition to cross National Forest System			

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	Lands. These reasonable mitigation conditions may include identifying areas where use and storage of petroleum products, herbicides, and other hazardous materials should be avoided during construction and operation. Conditions may also include avoiding or minimizing impacts on horse pastures to maintain adequate pasture size and replacing pasture fences removed during construction, as determined appropriate through consultation with the Forest Service. The Coalition shall consult with the Forest Service to ensure that construction and operation of the rail line complies with Ashley Forest Land and Resource Management Plan, including any existing or potential amendments to that plan, and with the Forest Service 2001 Roadless Rule.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-5. The Coalition shall adhere to the reasonable mitigation conditions imposed by the State of Utah School and Institutional Trust Lands Administration (SITLA) in any right-of-way grant allowing the Coalition to cross SITLA lands.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-6. If the Indian Canyon Alternative or the Whitmore Park Alternative is authorized by the Board, the Coalition shall obtain a right-of-way from the U.S. Bureau of Indian Affairs (BIA) to cross Tribal trust lands and shall implement the reasonable terms and conditions imposed by BIA in any decision granting a right-of-way on Tribal trust lands.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-7. Prior to project-related construction, the Coalition shall consult with BLM, the Forest Service, the Ute Indian Tribe, SITLA, and local agencies as appropriate, to develop a plan to limit, to the extent practicable, impacts on recreational resources under those agencies' management or jurisdiction, including roads used for recreation and recreational site access. The Coalition shall also consult with private landowners to develop appropriate measures to mitigate impacts on land uses and recreational activities on private land. The Coalition shall develop the plan prior to completing the final engineering plans for the rail line and following the above-mentioned consultation to determine the location of all public roads used as access points to a recreation area that would be crossed by the rail line. The plan shall designate temporary access points if main access routes must be obstructed during project-related construction. The plan shall also include the number and location of access points as decided during consultation with the applicable agencies.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-8. The Coalition shall coordinate with owners of properties used for recreation during project-related right-of-way acquisition negotiations to provide adequate private road at-grade crossings to ensure that recreationists maintain access to and movement within recreational properties and areas. The Coalition shall coordinate with UDWR, the Ute Indian Tribe, SITLA, BLM, and the Forest Service, as appropriate, to develop reasonable measures to maintain access to hunting and recreation access points.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-9. The Coalition shall consult with appropriate land management agencies to develop appropriate measures to mitigate impacts of construction and operation of the rail line on grazing allotments on public lands. These measures could include improving forage production in other areas of affected allotments through implementation of vegetation treatment projects,			

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	including sagebrush reduction treatments and/or seedings, to increase forage production and maintain preconstruction carrying capacity.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-10. The Coalition shall install cattle guards, livestock exclusion fencing, or other design features, as appropriate, within grazing areas along the rail line to prevent livestock from entering rail tunnels or congregating at tunnel entrances or in other areas in the rail right-of-way that could be hazardous to livestock. The Coalition shall work with landowners and land management agencies, as applicable, to identify appropriate locations for cattle guards, fencing, and other design features and to plan for ongoing maintenance of any of these features.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-11. The Coalition shall consider installing cattle underpasses along the right-of-way, as appropriate and practical. These underpasses could also be used by wildlife. The Coalition shall work with landowners to identify appropriate locations for cattle passes.			
Additional Mitigation Measures – Land Use and Recreation	LUR-MM-12. The Coalition shall coordinate with landowners and holders of conservation easements crossed by the rail line to develop appropriate measures to mitigate impacts of construction and operation of the rail line on affected conservation easements.			
Additional Mitigation Measures – Visual Resources	VIS-MM-1. The Coalition shall install visual barriers, as appropriate, to obstruct views of project-related construction activities and to maintain the privacy of adjacent landowners.			
Additional Mitigation Measures – Visual Resources	VIS-MM-2. The Coalition shall direct nighttime lighting, if used during construction, onto the immediate construction area during project-related construction to minimize impacts from shining lights on sensitive viewers, sensitive natural resource areas, recreational areas, and roadway or trail corridors.			
Additional Mitigation Measures – Visual Resources	VIS-MM-3. During project-related construction, the Coalition shall grade contours to create slopes with undulations and topographical variations that mimic natural terrain, where possible. If this grading practice results in larger areas of cut or fill that would further degrade natural features of scenic value, the Coalition shall not implement this measure at those locations. For example, a steeper cut slope may be more desirable than removing many trees to create more rounded terrain. The Coalition shall grade and restore roadbeds that are abandoned because of roadway relocation due to project-related construction to mimic the adjacent natural landscape and revegetate the roadway surface.			
Additional Mitigation Measures – Visual Resources	VIS-MM-4. The Coalition shall design bridges, communications towers, and other project-related features to complement the natural landscape and minimize visual impacts on the landscape. To the extent practicable, the Coalition shall use paint colors that are similar to colors in the surrounding landscape and shall implement design features that mimic natural materials (e.g., stone or rock surfacing) and colors to reduce visibility and to blend better with the landscape.			
Additional Mitigation Measures – Visual Resources	VIS-MM-5. If the Board authorizes construction and operation of the Indian Canyon Alternative or Whitmore Park Alternative, the Coalition shall implement the reasonable requirements of any Forest Service decision permitting the rail line within Ashley National Forest and shall ensure that			

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	construction and operation on National Forest System lands complies with the requirements for visual resources management in Ashley National Forest Land and Resource Management Plan, including any potential amendments to that plan.			
Additional Mitigation Measures – Visual Resources	VIS-MM-6. If the Board authorizes the Indian Canyon Alternative or the Wells Draw Alternative, the Coalition shall consult with BLM during all phases of project design to ensure that construction and operation of the rail line on BLM lands would be in compliance with all applicable BLM Visual Resource Management requirements and procedures. The Coalition shall incorporate visual design considerations into the design of the rail line on BLM lands; undertake additional visual impact analyses on BLM lands, as appropriate, in consultation with BLM and considering applicable BLM Visual Resources Inventories; and implement appropriate measures to mitigate visual impacts on BLM lands, as requested by BLM.			
Additional Mitigation Measures – Visual Resources	VIS-MM-7. If the Board authorizes the Indian Canyon Alternative or the Wells Draw Alternative, the Coalition shall, in consultation with BLM, implement appropriate additional measures to minimize light pollution on BLM lands, potentially including limiting the height of light poles, limiting times of lighting operations, limiting wattage intensity for lighting, and constructing light shields, as applicable.			
Additional Mitigation Measures – Visual Resources	VIS-MM-8. The Coalition shall implement the requirements of the Ute Indian Tribe regarding the design of the rail line on Tribal trust lands for minimizing visual disturbances to Tribal trust lands.			
Additional Mitigation Measures – Socioeconomics	SOCIO-MM-1. The Coalition shall negotiate compensation—for direct loss of agricultural land in the right-of-way and the indirect loss of agricultural land from severance—with each landowner whose property would be affected by construction and operation of the rail line, consistent with applicable state law. The Coalition shall assist landowners in developing alternative agricultural uses for severed land, where appropriate. The Coalition shall apply a combination of alternative land use assistance and compensation as agreed upon during right-of-way negotiations, pursuant to state law. Where capital improvements are displaced by construction or operation of the rail line, the Coalition, in consultation with the landowner and relevant agencies, such as water districts or the local Natural Resources Conservation Services office, shall relocate or replace these improvements or provide appropriate compensation based on the fair market value of the capital improvements being displaced, consistent with applicable state law.			
Additional Mitigation Measures – Socioeconomics	SOCIO-MM-2. The Coalition shall consult with landowners to limit the loss of access to properties during rail construction. The Coalition also shall consult with landowners to determine the location of property access roads that would be crossed by the rail line. The Coalition shall install temporary property access points for landowner use if main access routes must be obstructed during project-related construction. The Coalition shall coordinate with landowners while negotiating the railroad right-of-way easement to identify key access points that would be affected by construction and operation of the rail line. The Coalition shall install at-grade crossings and			

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	relocate roads to maintain adequate access to and movement within properties after rail operations begin.			
Additional Mitigation Measures – Environmental Justice	EJ-MM-1. The Coalition shall consult with the Ute Indian Tribe regarding potential impacts on the Pariette cactus and Uinta Basin hookless cactus and shall abide by the requirements of the tribe’s Sclerocactus Management Plan and the tribe’s other requirements and recommendations for project-related activities on Tribal trust lands, which may include soil assessments, complying with mitigation measures to be developed in consultation with the tribe, and contributing to a conservation mitigation fund, as appropriate.			
Additional Mitigation Measures – Environmental Justice	EJ-MM-2. The Coalition shall consult with the Ute Indian Tribe regarding the final design of the rail line, including the locations and designs of rail-related features, such as sidings, communications towers, culverts, bridges, and warning devices, to ensure that impacts on tribal members and land and resources under the tribe’s jurisdiction are minimized.			
Additional Mitigation Measures – Monitoring and Compliance	MC-MM-1. The Coalition shall submit quarterly reports to OEA on the progress of, implementation of, and compliance with all Board-imposed mitigation measures. The reporting period for these quarterly reports shall begin on the date of the Board’s final decision authorizing the project until 1 year after the Coalition has completed project-related construction activities. The Coalition shall submit copies of the quarterly reports within 30 days following the end of each quarterly reporting period and distribute the reports to appropriate federal, state, local, and tribal agencies, as specified by OEA.			