

## **Appendix A**

### **Interdisciplinary Team Checklist**



# INTERDISCIPLINARY TEAM ANALYSIS RECORD CHECKLIST

**Project Title:** Enduring Resources' Southam Canyon Environmental Assessment

**NEPA Log Number:** UT-080-08-342

**File/Serial Number:**

**Project Leader:** Stephanie Howard

**DETERMINATION OF STAFF: (Choose one of the following abbreviated options for the left column)**

NP = not present in the area impacted by the proposed or alternative actions.

NI = present, but not affected to a degree that detailed analysis is required.

PI = present with potential for significant impact analyzed in detail in the EA; or identified in a DNA as requiring further analysis.

NC = (DNAs only) actions and impacts not changed from those disclosed in the existing NEPA documents cited in Section C of the DNA form.

Determination	Resource	Rationale for Determination*	Signature	Date
PI	Air Quality	Potential impacts from 249 wells. A 1,500 hp compressor is also proposed. Minimum quantities of dust emissions are anticipated.	Stephanie Howard	4/16/08
NP	Areas of Critical Environmental Concern	None present per the VFO RMP/ROD, 2008.	Jason West	4/16/08
PI	Cultural Resources	Moderate potential for significant sites to be found using current data collection methods. The area was inventoried in 1974-75 in association with the Oil Shale Ua and Ub project. Does not impact the historic cottonwood grove campsite on the White River.	Gabrielle Elliott	4/16/08
NP	Environmental Justice	No minority or economically disadvantaged communities or populations are present in the project area which could be disproportionately affected by the proposed action or alternatives.	Stephanie Howard	4/16/08
NP	Farmlands (Prime or Unique)	No prime or unique farmlands are present in the Vernal Field Office area.	Stephanie Howard	4/16/08
PI	Floodplains	Southam Canyon, Evacuation Creek, and tributaries to them are present within project boundary, all of which have mapped 100 year floodplains. Roads, pipelines, and well pads may be sited within some of them. White River in northwest of project area appears to have been avoided.	Stephanie Howard	4/16/08
PI	Invasive, Non-native Species	Potential for spread or introduction of noxious or invasive species. Tamarisk may be present in the project area. A pre-project weed inventory should be conducted within the project area prior to surface disturbance with a copy of the weed survey sheet (see Jessie Salix for form) provided to the BLM. A Pesticide Use Proposal should be approved before disturbance is authorized. Vehicles and equipment should be power washed prior to entering the project area if coming from outside the Uinta Basin. Power washing vehicles and equipment would be necessary when traveling from a weed infested area within the Uinta Basin as well. Annual weed inventories should be conducted along the surface use area and controlled if present. Weeds should be controlled prior to seed development.	Clayton Newberry	4/16/08
NP	Native American Religious Concerns	None known at this time.	Gabrielle Elliott	4/16/08

Determination	Resource	Rationale for Determination*	Signature	Date
PI	Threatened, Endangered or Candidate Animal Species	Endangered Colorado River fish – Water depletion, sedimentation into White River, No work proposed within critical habitat, but proposed development will be within 0.5 mile of critical habitat. No work proposed within Mexican spotted owl habitat, but a portion of the project area is within 0.5 mile buffer of good or better habitat. Possible habitat for Yellow-billed cuckoo along the White River.	Scott Ackerman	4/16/08
NP	Threatened, Endangered or Candidate Plant Species	The Project Area does not include habitat for TEC species.	Clayton Newberry	9/15/08
NI	Wastes (hazardous or solid)	<i>Hazardous Waste:</i> No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of the wells. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of the wells.  <i>Solid Wastes:</i> Trash would be confined in a covered container and hauled to an approved landfill. Burning of waste or oil would not be done. Human waste would be contained and be disposed of at an approved sewage treatment facility.	Stephanie Howard	4/16/08
PI	Water Quality (surface/ground)	The operator has certified compliance with all Onshore Oil and Gas Orders. “Onshore Oil and Gas Order No. 2 Drilling Operations” will assure that the project will not adversely affect groundwater quality. Due to the state-of-the-art drilling and well completion techniques, the possibility of adverse degradation of groundwater quality or prospectively valuable mineral deposits by the proposed action will be negligible.  Well completion must be accomplished in compliance with “Onshore Oil and Gas Order No. 2, Drilling Operations”, These guidelines specify the following: <i>...proposed casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use.</i>  Various water wells with associated water rights within project area. Also surface water near and within the project area (White River).	Stephanie Howard Robin Hansen	4/16/08
PI	Wetlands/Riparian Zones	Riparian area present along northern part of Evacuation Creek within project area.	Stephanie Howard	4/16/08
NP	Wild and Scenic Rivers	None present per the VFO RMP/ROD, 2008.	Jason West	4/16/08
NP	Wilderness	None present per the VFO RMP/ROD, 2008.	Jason West	4/16/08
NP	Wilderness Study Areas	None present per the VFO RMP/ROD, 2008.	Jason West	4/16/08
PI	Rangeland Health Standards and Guidelines	Potentially impacted as disclosed in the soils, vegetation, special status species, riparian, water quality, and weeds sections.	Stephanie Howard	4/16/08
PI	Livestock Grazing	Within the Hells Hole, Watson BC, and Southam Canyon allotments. Potential to impact range facilities (fences, etc).	Stephanie Howard	4/16/08

Determination	Resource	Rationale for Determination*	Signature	Date
PI	Woodland / Forestry	Clearing of ROWs and well pads could impact woodland vegetation.	David Palmer	4/16/08
NP	Special Status Plant Species other than FWS Candidate or Listed species	Bureau-sensitive Graham's beardtongue ( <i>Penstemon grahamii</i> ) and other oilshale endemics are reported immediately east of Project Area in T10S R25E E2. These plants are restricted to surface outcrops of Mahogany Bed oil shale, which does not occur in Project Area. Therefore despite the proximity to TES plant occurrences, Project Area itself does not include habitat for these species.	Clayton Newberry	4/16/08
PI	Non-status vegetation	Vegetation will be removed/disturbed in the Project Area. Interim reclamation should be conducted in a timely manner to reduce the impacts to vegetation.	Clayton Newberry	4/16/08
PI	Fish and Wildlife including Special Status Species other than FWS Candidate or Listed species (eg. Migratory Birds)	Raptor nesting and foraging including golden eagle, bald eagle, red-tailed hawk, prairie falcon, peregrine falcon. Possible impacts to sage grouse (habitat loss). Impacts to migratory birds (food, nesting). Impacts to other sensitive fish species (water depletion, sedimentation). Certain bat species could roost and forage in the area. Big game impacts primarily mule deer and elk (loss of wintering habitat and impacts to migration corridors). UDWR designated Big horn sheep crucial habitat.	Scott Ackerman	4/16/08
PI	Soils	Surface disturbance would occur. Increased erosion and sedimentation is expected to occur following surface disturbance.	Stephanie Howard	4/16/08
PI	Recreation	The hunting unit affected is the Book Cliffs Bitter Creek unit. Limited entry bull elk 08/16-9/12 (archery), 09/13-09/23 (any weapon) 09/24-10/02 (Muzzel loader), All are considered Premium hunts. Limited entry pronghorn 9/13-9/23 (Any weapon). Concerns are that the proposal would affect the quality of the hunting experience through added noise, loss of scenery, and displacement of hunters from traditional hunting areas.	Jason West	4/16/08
PI	Visual Resources	Portions of the proposal fall with VRM Class II. Class II Objective. The objective of this class is to retain the existing character of the landscape. The level of change to the characteristic landscape should be low. Management activities may be seen, but should not attract the attention of the casual observer. Any changes must repeat the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape. The remainder of the project is within classes III and IV. The project would be within management objectives in those areas.	Jason West	4/16/08
PI	Geology / Mineral Resources	OSEC 160 acre R&D lease. OSEC has filed a mining plan of operations. OSEC preferential oil shale lease area, should the R&D be proven. 5300 acres Black Dragon Unit covers most of the project area, but Enduring is not the unit operator. Need to resolve conflicts between proposed oil shale development and oil and gas. Eventually will need specifically placed oil well locations (no modifications after approval). Specifically designed casing designs, etc. Will need feedback from OSEC. During drilling operations will have to protect mining resources. The project will not impact goblin city.	Robin Hansen	4/16/08
PI	Paleontology	Within the lower green river formation.. Moderate potential for paleontology impacts. Very few surveys have been done, but there are some known localities nearby.	Robin Hansen	4/16/08

<b>Determination</b>	<b>Resource</b>	<b>Rationale for Determination*</b>	<b>Signature</b>	<b>Date</b>
PI	<b>Lands / Access</b>	The proposed area is located within the Book Cliffs Resource Management Plan area, which allows for oil and gas development with associated road and pipeline right-of-ways. Current land uses, within the area identified in the proposed action and adjacent lands, consist of existing oil and gas development, wildlife habitat, recreational use, and sheep and cattle ranching. The White River dam and hydroelectric project includes a dam, reservoir, 136 Kv power line and access roads within T. 10 S., R., 25 E., sec. 18 N2NWNW, and T. 10 S., R. 24 E., sec. 14, NWNWNE, N2S2NW, NENW, sec. 15, S2NE, SENW, W2E2SW.	Paul Rodriquez	4/16/08
NI	<b>Fuels / Fire Management</b>	No planned or ongoing fuel reduction projects in the project area.	Steve Strong	4/16/08
NI	<b>Socio-economics</b>	Due to the low number of wells, county socioeconomics are not expected to be measurably impacted by this proposed project.	Stephanie Howard	4/16/08
NP	<b>Wild Horses and Burros</b>	No herd areas or herd management areas are present in the project area.	Stephanie Howard	4/16/08
NP	<b>BLM Natural Areas (wilderness characteristics)</b>	None present per the VFO RMP/ROD, 2008. The White River natural area is west of the project area, and outside of the project area boundaries, so it is not impacted by this project.	Jason West	4/16/08
NI	<b>County Transportation Plan</b>	Contact Uintah County Planning and Zoning Department for the necessary County permits. For road upgrades and maintenance contact the Uintah County Public Lands Department. For crossing of County roads contact the Uintah County Road Department.	Diane Coltharp	4/16/08
PI	<b>Waters of the U.S. (C.O.E.)</b>	There is the potential to impact surface waters from road and buried pipeline crossings. Water resources should be mapped and avoided. Unavoidable impacts will require a Corps permit and may require compensatory mitigation.	Sue Nall	4/16/08

**FINAL REVIEW:**

<b>Reviewer Title</b>	<b>Signature</b>	<b>Date</b>	<b>Comments</b>
NEPA / Environmental Coordinator			
Authorized Officer			