

ENVIRONMENTAL ASSESSMENT

Project Name: Preble

Proposed Implementation Date: Fall 1999

Proponent: Cascade County Road Dept.

Type and Purpose of Action: The proponent proposes to mine, crush, stockpile and transport 80,000 cubic yards of sand & gravel from a 14.4 acre site for resurfacing county roads. The site would be reclaimed by recontouring, respreading the topsoil and reseeded the site with grasses. The reclaimed use would be grazing. The site would be reclaimed by November of 2008.

Location: NE¼, Sec. 9, T17N, R2E **County:** Cascade

N = Not present or No Impact will occur.

Y = Impacts may occur (explain under Potential Impacts).

IMPACTS ON THE PHYSICAL ENVIRONMENT	
RESOURCE	[Y/N] POTENTIAL IMPACTS AND MITIGATION MEASURES
<p>1. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE: Are fragile, compactible or unstable soils present? Are there unusual geologic features? Are there special reclamation considerations?</p>	<p>[N] The proposed operation is located on the south side of a hill 15 miles east of Cascade. The soils are approximately 12 inches deep and are of a loam texture. There is no overburden. After regrading the soil would be replaced. Microorganisms should reinvade the soil. There are no fragile, compactible or unstable soils present, no unusual geologic features, or special reclamation considerations.</p>
<p>2. WATER QUALITY, QUANTITY AND DISTRIBUTION: Are important surface or groundwater resources present? Is there potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality?</p>	<p>[N] There is a small drainage south of the proposed pit and north of the proposed crusher and stockpile area. The drainage flows water during snowmelt and large precipitation events. No mining or other disturbances will occur within 5 feet of either side of the drainage, except for a 30-foot wide area through which material will be transported from the mine site to the crusher and stockpile area. Earthen berms and or silt fence will be installed to prevent any off site erosion or sedimentation. There are no water wells within 1,000 feet of the site. The site will be mined to a depth of 8 feet, which is well above the depth to the water table. Any bulk fuel storage containment areas would be lined and bermed and be of sufficient size to contain any spills. Best Management Practices would be used to prevent any off site sedimentation or erosion.</p>
<p>3. AIR QUALITY: Will pollutants or particulate be produced? Is the project influenced by air quality regulations or zones (Class I airshed)?</p>	<p>[Y] Air quality would be degraded, but the proponent must comply with air quality standards, and an Air Quality Permit obtained from the Montana Dept. of Environmental Quality for the crusher. A water truck would be used to control any dust on the haul road and facility area.</p>
<p>4. VEGETATION COVER, QUANTITY AND QUALITY: Will vegetative communities be permanently altered? Are any rare plants or cover types present?</p>	<p>[Y] The vegetation on the site of the proposed operation is various native grasses and forbs. Native and nonnative grass species would be seeded onto the site upon recontouring and retopsoiling. A literature search was done by the Montana National Heritage Program and no rare plants or cover types were identified and none were identified during a ground search.</p>
<p>5. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS: Is there substantial use of the area by important wildlife, birds or fish?</p>	<p>[N]</p>
<p>6. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES: Are any federally listed threatened or endangered species or identified habitat present? Any wetlands? Species of special concern?</p>	<p>[N] The Montana National Heritage Program did a literature search and no threatened or endangered species or identified habitat or species of special concern were found to be present on the site. A ground search did not reveal any threatened or endangered species or identified habitat or species of special concern. No wetlands are present.</p>

7. HISTORICAL AND ARCHAEOLOGICAL SITES: Are any historical, archaeological or paleontological resources present?	[N] A cultural survey was conducted on the site and no cultural resources were found. If the operator of the proposed operation discovers any cultural resources the operation must be routed around the site of discovery for a reasonable amount of time until salvage can be made. The State Historical Preservation Office must be promptly notified.
8. AESTHETICS: Is the project on a prominent topographic feature? Will it be visible from populated or scenic areas? Will there be excessive noise or light?	[N]
9. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY: Will the project use resources that are limited in the area? Are there other activities nearby that will affect the project?	[N]
10. IMPACTS ON OTHER ENVIRONMENTAL RESOURCES: Are there other studies, plans or projects on this tract?	[N]

IMPACTS ON THE HUMAN POPULATION

RESOURCE	POTENTIAL IMPACTS AND MITIGATION MEASURES
11. HUMAN HEALTH AND SAFETY: Will this project add to health and safety risks in the area?	[Y] There will be increased hazards because of equipment activity and hauling of the sand and gravel. The applicant must comply with OSHA and MSHA regulations however, proper precautions will be taken to avoid accidents.
12. INDUSTRIAL, COMMERCIAL AND AGRICULTURAL ACTIVITIES AND PRODUCTION: Will the project add to or alter these activities?	[N] There will be a temporary loss of grazing on 14.4 acres of land until the site is successfully reclaimed.
13. QUANTITY AND DISTRIBUTION OF EMPLOYMENT: Will the project create, move or eliminate jobs? If so, estimated number.	[N]
14. LOCAL AND STATE TAX BASE AND TAX REVENUES: Will the project create or eliminate tax revenue?	[N]
15. DEMAND FOR GOVERNMENT SERVICES: Will substantial traffic be added to existing roads? Will other services (fire protection, police, schools, etc) be needed?	[N] The site will require periodic site evaluations, but these will be done in conjunction with other operations in the area.
16. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS: Are there State, County, City, USFS, BLM, Tribal, etc. zoning or management plans in effect?	[N] County Zoning clearance has been obtained.
17. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES: Are wilderness or recreational areas nearby or accessed through this tract? Is there recreational potential within the tract?	[N]
18. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING: Will the project add to the population and require additional housing?	[N]
19. SOCIAL STRUCTURES AND MORES: Is some disruption of native or traditional lifestyles or communities possible?	[N]
20. CULTURAL UNIQUENESS AND DIVERSITY: Will the action cause a shift in some unique quality of the area?	[N]
21. OTHER APPROPRIATE SOCIAL AND	

