

Final Environmental Impact Statement

Volume 1



Prepared for:



FHWA Number: DTFH70-00-D-00016

Miller Creek Road
Missoula County, Montana

FINAL ENVIRONMENTAL IMPACT STATEMENT

Submitted Pursuant to
42 USC 4332(2)(c), 23 USC 128(a), 49 USC 303, 36 CFR 59 and
75-1-101, et. seq. MCA

By the
US DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Cooperating Agencies
Montana Fish, Wildlife & Parks
US Army Corps of Engineers
US Fish and Wildlife Service



Kevin L. McLaury, PE
Division Administrator
Federal Highway Administration
Montana Division
585 Shepard Way
Helena, MT 59601

Date 3/6/2008

Abstract:

The Federal Highway Administration (FHWA) proposes to provide a safe and improved access between US 93 and the Miller Creek area in Missoula County, Montana. This Final Environmental Impact Statement (FEIS) provides a detailed evaluation of proposed improvements, including an examination of the purpose and need for the proposed action, alternatives under consideration, the affected environment, environmental consequences, impacts to Section 4(f) properties, and mitigation measures. Five alternatives, including the No-Action Alternative, are considered for implementation in the project area.

Comments on this FEIS are due by APRIL 14, 2008 and should be sent to Mr. Craig Genzlinger, PE, Project Manager, Federal Highway Administration, 585 Shepard Way, Helena, Montana 59601 or the project Web site: www.millereis.com.

For additional information concerning the document contact:

Craig Genzlinger, PE, Project Manager
Federal Highway Administration
585 Shepard Way
Helena, Montana 59601
craig.genzlinger@fhwa.dot.gov
406-449-5302 ext. 240

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March, 2008

Viewing Locations

This Final Environmental Impact Statement (FEIS) is available for agency and public review at the following locations:

- **Federal Highway Administration**
 585 Shepard Way
 Helena, Montana 59601
 (technical reports also available for review at this location*)

- **Montana Department of Transportation**
 2100 West Broadway
 Missoula, Montana 59807-7039

- **City of Missoula**
 City Engineer's Office
 435 Ryman Street
 Missoula, Montana 59802-4297
 (technical reports also available for review at this location*)

- **Missoula County Office of Planning and Grants**
 City Hall, First Floor
 435 Ryman
 Missoula, Montana 59802-4297

- **Missoula County Office of Planning and Grants Satellite Office**
 127 West Spruce Street
 Missoula, Montana 59802

- **Missoula County Public Works Office**
 6089 Training Drive
 Missoula, Montana 59808

- **Missoula Public Library Reference Desk**
 301 East Main
 Missoula, Montana 59802-4799
 (technical reports also available for review at this location*)

- **Target Range School Library**
 4095 South Avenue West
 Missoula, Montana 59804

- **Project Web site: www.millereis.com**

*See Appendix C for list of technical reports prepared for this project.

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List of Acronyms and Abbreviations

The following list provides definitions of acronyms and abbreviations used throughout this document.

Acronym	Definition
AASHTO	American Association of State Highway Transportation Officials
ADT	Average daily traffic
APE	Area of Potential Effect
ARM	Administrative Rules of Montana
ASTM	American Society for Testing and Materials
BCR	Bird Conservation Region
BLM	Bureau of Land Management
BMP	Best management practice
CEI	Cost-effectiveness index
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cfs	cubic feet per second
CLOMR	Conditional Letter of Map Revision
CMAQ	Congestion Mitigation Air Quality
CMP	Corrugated metal pipe
CO	Carbon monoxide
CRIS	Cultural Resource Information System
CS&KT	Confederated Salish & Kootenai Tribal
CWA	Clean Water Act
dB	Decibel
dba	A-weighted decibel
DBE	Disadvantaged business enterprise
DEIS	Draft Environmental Impact Statement
DNRC	Department of Natural Resource Conservation
DOT	Department of Transportation
EIS	Environmental Impact Statement
EO	Executive Order
EPA	Environmental Protection Agency
ESA	Endangered Species Act
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FHA	Federal Housing Authority
FHWA	Federal Highway Administration
FIRM	Flood insurance rate map
FIS	Flood Insurance Study
fps	Feet per second
FTA	Federal Transit Administration
GPM	Gallons per minute
HBU	Highest and best use
HEC	Hydraulic Engineering Circular
HHS	United States Department of Health and Human Services
HRC	Human Resources Council
HUC	Hydrologic Unit Code

Acronym	Definition
HUD	United States Department of Housing and Urban Development
ID	Interdisciplinary
L&WCF	Land and Water Conservation Fund Program of Assistance to States and Urban Parks
Leq	Equivalent continuous noise level
LOMR	Letter of Map Revision
LOS	Level of service
LRTP	Long-Range Transportation Plan
LUST	Leaking underground storage tank
MAAQS	Montana Ambient Air Quality Standards
MCA	Montana Code Annotated
MDEQ	Montana Department of Environmental Quality
MDMB	Monitoring & Data Management Bureau (Montana)
MDT	Montana Department of Transportation
mev	Million Entering Vehicles
MFWP	Montana Fish, Wildlife & Parks
mgd	Million gallons a day
MIM	Missoula In Motion
MNHP	Montana Natural Heritage Program
MPDES	Montana Pollution Discharge Elimination System
mph	Mile per hour
MPM	Montana Principal Meridian
MPO	Metropolitan Planning Organization
MR TMA	Missoula-Ravalli Transportation Management Association
MRIS	Montana Rivers Information System
MRL	Montana Rail Link
MSAT	Mobile source air toxics
MUTD	Missoula Urban Transportation District
MUTP	Missoula Urban Transportation Plan Update
mvm	Million vehicle miles
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NAVD'88	North American Vertical Datum of 1988
NCHRP	National Cooperative Highway Research Program
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NHS	National Highway System
NO₂	Nitrogen dioxide
NOA	Notice of Availability
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NPRR	Northern Pacific Railroad
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
O₃	Ozone
OHWM	Ordinary high water mark
OPG	Office of Planning and Grants
Pb	Lead
PM₁₀	Particulate matter less than 10 microns in diameter



Acronym	Definition
PM_{2.5}	Particular matter less than 2.5 microns in diameter
ppm	Parts per million
PUD	Planned Unit Development
PVC	Polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
ROD	Record of Decision
ROW	Right-of-way
RP	Reference post
RR	Railroad
SEE	Social, Economic, Environmental
SHPO	State Historic Preservation Officer
SIAP	System Impact Action Process
SIP	State Implementation Plan
SO₂	Sulfur dioxide
SOV	Single-occupant vehicle
SWPPP	Stormwater Pollution Prevention Plan
TAC	Transportation Advisory Committee
TCPP	Transportation Policy Coordinating Committee (Missoula)
TDM	Transportation demand management
TIP	Transportation Improvement Program
TMA	Transportation Management Association
TMDL	Total maximum daily load
TNM	Traffic noise model
TPCC	Transportation Policy Coordinating Committee
TPY	Tons per year
TSM	Transportation system management
US	United States
USACE	United States Army Corps of Engineers
USC	United States Code
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground storage tank
v/c	volume-to-capacity
VHT	Vehicle hours traveled
VMT	Vehicle miles traveled
VOCs	Volatile organic compounds
vpd	vehicles per day
WQD	Water Quality District
WSEL	Water surface elevation level

