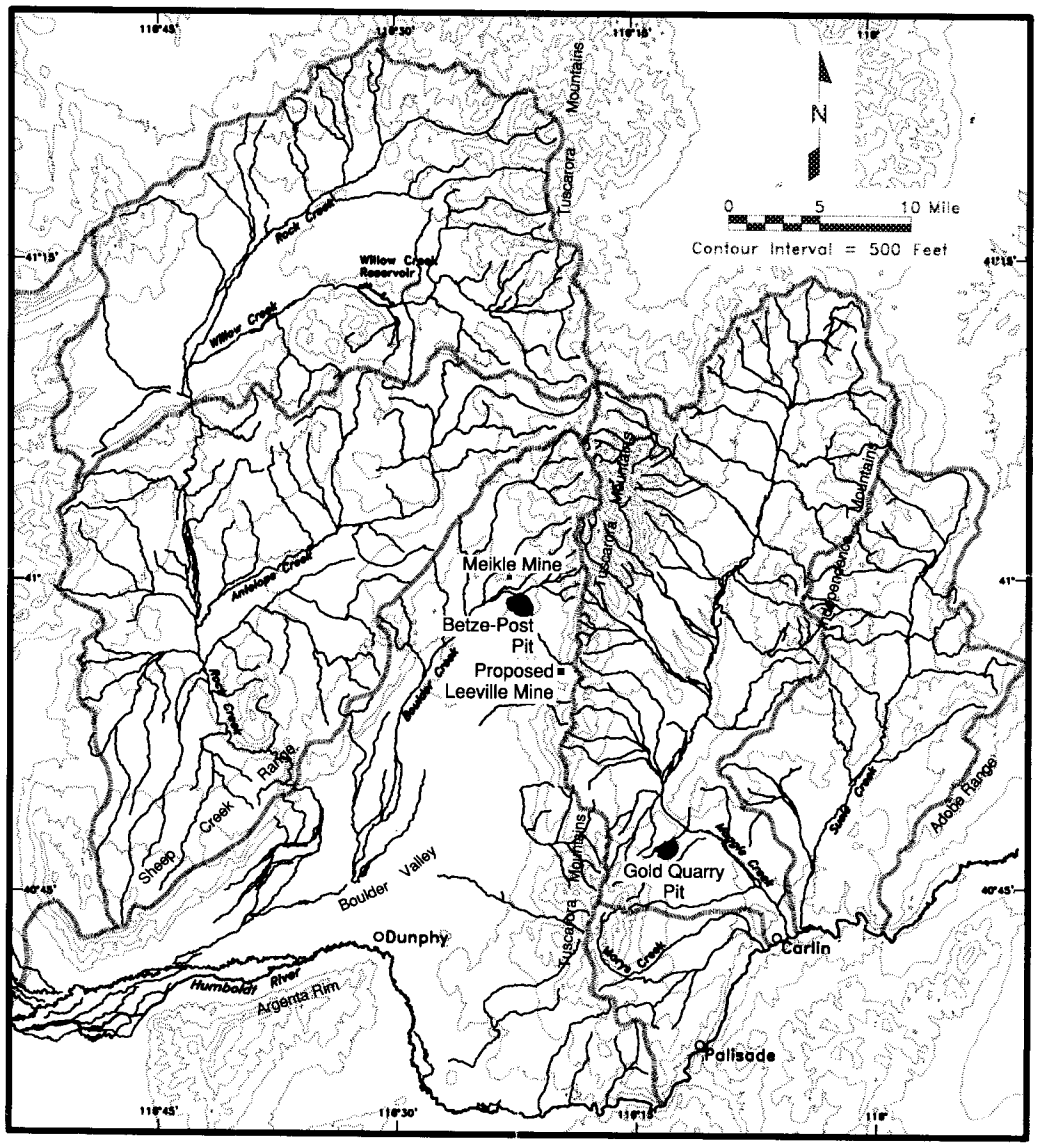
CUMULATIVE IMPACT ANALYSIS OF DEWATERING AND WATER MANAGEMENT OPERATIONS FOR THE BETZE PROJECT, SOUTH OPERATIONS AREA PROJECT AMENDMENT, AND LEEVILLE PROJECT



U.S. Department of the Interior
Bureau of Land Management
Elko Field Office
Elko, Nevada

April 2000

Unit Conversion Table

From	To	Multiply By
Area		
acres	square feet	43,560
square miles	acres	640
Volume		
acre-feet	gallons	325,829
gallons	cubic feet	7.48
Flow		
cubic feet per second (cfs)	gallons per minute (gpm)	449
gpm	acre-feet per year	1.61
cfs	acre-feet per year	724
Concentration		
parts per million (ppm)	milligrams per liter (mg/L)	1
mg/L	micrograms per liter (µg/L)	1000
Loads		
tons per day (tpd)	tons per year (tpy)	365
tpy	pounds per day	5.48

CUMULATIVE IMPACT ANALYSIS OF DEWATERING AND WATER MANAGEMENT OPERATIONS FOR THE BETZE PROJECT, SOUTH OPERATIONS AREA PROJECT AMENDMENT, AND LEEVILLE PROJECT

April 2000

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ACRONYMS AND ABBREVIATIONS

µg/g	micrograms per gram
µg/L	micrograms per liter
amsl	above mean sea level
AUM	animal unit month
BLM	Bureau of Land Management
BVMP	Boulder Valley Monitoring Plan
bw	body weight
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
cfs	cubic feet per second
CIA	Cumulative Impact Analysis
CTQ	Community Tolerance Quotient
EIS	environmental impact statement
ELLCO	Elko Land and Livestock Company
ET	evapotranspiration
°F	Fahrenheit
FFR	Fenced Federal Range
gpm	gallons per minute
LCT	Lahonton cutthroat trout
LMC	Lower Maggie Creek
LOAEL	Lowest Observed Adverse Effects Levels
m^2	square meters
MCBMP	Maggie Creek Basin Monitoring Plan
MCWRP	Maggie Creek Watershed Restoration Project
mg/kg	milligrams/kilograms
mg/L	milligrams per liter
NAC	Nevada Administrative Code
NDCNR	Nevada Department of Conservation and Natural Resources
NDEP	Nevada Department of Environmental Protection
NDOW	Nevada Division of Wildlife
NDWR	Nevada Division of Water Resources
NEPA	National Environmental Policy Act
NNHP	Nevada Natural Heritage Program
NOAA	National Oceanographic and Atmospheric Administration
NOAEL	No Observed Adverse Effects Levels
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NTU	nephelometric turbidity units
OHWM	ordinary high water mark
ROW	right-of-way
SAR	sodium adsorption ratio
SOAP	South Operations Area Project
SOAPA	South Operations Area Project Amendment
TDS	total dissolved solids
TSS	total suspended solids

USCOE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WMA	Wildlife Management Area