

MOLYCORP
PRELIMINARY SITE
CHARACTERIZATION SUMMARY

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REVISION 0

Prepared for
Molycorp, Inc.
Questa, New Mexico

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URS

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List of Acronyms

Al	aluminum
AOC	Administrative Order on Consent
ARARs	Applicable or Relevant and Appropriate Requirements
ATSDR	Agency for Toxic Substances and Disease Registry
AVS	acid volatile sulfides
B	boron
Ba	barium
BOD	Biological oxygen demand
C&A	Chadwick and Associates, Inc.
CaCO ₃	bicarbonate
Cd	cadmium
CD	Central ditch
CEC	Cation Exchange Capacity
Chadwick	Chadwick Ecological Consultants
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
cfs	cubic feet per second
COC	chain-of-custody
COD	Chemical oxygen demand
CR	Cater Ranch
Cu	copper
CV	coefficient of variation
CVAA	cold vapor atomic absorption
DDT	dichlorodiphenyl-trichloroethane
DQO	data quality objective
DS	downstream
DVR	data validation report
EBAM	Environmental Beta Attenuation Monitor
EC	elemental carbon
EF	Enrichment Factors
EPA	U.S. Environmental Protection Agency
EPT	Ephemeroptera, Plecoptera, and Trichoptera

List of Acronyms

ERA	Ecological Risk Assessment
EROUT	outfall location
ERL	Eagle Rock Lake
Fe	iron
FEM	Federal equivalent method
FS	Feasibility Study
FSP	Field Sampling Plan
GHGC	Goathill Gulch Catchment
gpm	gallons per minute
GSI	Groundwater/Surface Water Interaction
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma – Atomic Emissions Spectrometry
ICP-MS	Inductively Coupled Plasma – Mass Spectrometry
ISE	ion-selective electrode
IX	ion-exchange
LCS	laboratory control sample
M&E	maintenance and electrical
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MMD	Mining and Minerals Division
Mn	Manganese
Mo	molybdenum
Molycorp	Molycorp, Inc.
MS	mass spectroscopy
MS	matrix spike
NAAQS	National Ambient Air Quality Standards
ND	North Ditch
Ni	nickel
NMAQB	New Mexico Air Quality Bureau
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System

List of Acronyms

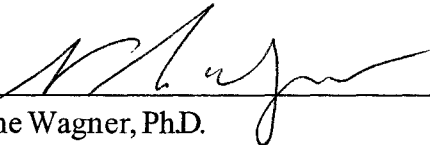
OC	organic carbon
PACRC	Precision, Accuracy, Completeness, Representativeness, and Comparability
Pb	lead
PCBs	polychlorinated biphenyls
PCDDs/PCDFs	polychlorinated dibenzo dioxins/polychlorinated dibenzo furans
pCi/L	pico Curies per liter
pdf	portable document files
pg/g	picograms per gram
PM ₁₀	particulate matter less than 10 microns
PMSD	percent minimum significant difference
PSCS	Preliminary Site Characterization Summary
QAPP	Quality Assurance Project Plan
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SAR	Sodium Absorption Ration
SD	South Ditch
SEM	simultaneously extractable metals
SLC	screening level criteria
SOPs	Standard Operating Procedures
SOW	Statement of Work
SPLP	Synthetic Precipitation Leaching Procedure
STL	Severn Trent Laboratories
STL-B	Severn Trent Laboratories-Barrington
su	standard units
SVOC	semivolatile organic compound
SW	surface water
TDS	total dissolved solids
TKN	total Kjeldahl nitrogen

List of Acronyms

TMDL	Total Maximum Daily Load
TOC	total organic carbon
TSN	taxa codes
UFL	Upper Fawn Lake
URS	URS Corporation
US	upstream
uS/cm	microSiemens per centimeter
USGS	U.S. Geological Survey
V	vanadium
VOC	volatile organic compound
WTP	western tailing pond
YCT	Yeast cerophyll trout chow
YOY	young of year
Zn	zinc

Signature Page

To the best of my knowledge, after thorough investigation, I certify that the information contained in or accompanying this submission is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



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