

**KENO VALLEY/DUBLIN GULCH
ENVIRONMENTAL BASELINE ASSESSMENT**

VOLUME III: Keno Valley Sites #21 to #40

Prepared for
Waste Management Program
Indian and Northern Affairs Canada

By
Environmental Services
Public Works and Government Services Canada

March, 2000

At the request of the client, there has been no interpretation of data compiled and gathered for this assessment. Therefore, this report does not draw comparisons or make references to environmental quality criteria, guidelines, or codes of practice, and makes no recommendations for future action.

TABLE OF CONTENTS

VOLUME I -

INTRODUCTION..... I3

I1 PROJECT OBJECTIVE	I3
I2 STUDY AREA	I3
I3 BASELINE ASSESSMENT REPORT FORMAT	I3

PART A - ENVIRONMENTAL SETTING..... A13

A1 STUDY AREA PHYSIOGRAPHY.....	A13
A2 BEDROCK GEOLOGY	A14
A3 SOILS	A17
A4 VEGETATION.....	A19
A5 HYDROLOGY AND WATER QUALITY DATA.....	A21
A5.1. Data Sources.....	A21
A5.2. Study Area Hydrology.....	A21
A6 STUDY AREA WATER QUALITY.....	A33
A6.1. Dublin Gulch Water Quality.....	A33
A6.2. Keno Valley Area Water Quality.....	A33
A7 TERRESTRIAL WILDLIFE	A40
A8 FISH RESOURCES.....	A41
A9 DATA GAPS	A41

PART B - LAND USES OTHER THAN MINING B47

B1 DATA SOURCES	B47
B2 LAND TENURE.....	B47
B3 TOURISM, RECREATIONAL, AND RESIDENTIAL USES	B50
B4 TRAPPING, HUNTING, AND SPORT FISHERY USES.....	B52

PART C - KENO VALLEY/DUBLIN GULCH MINE SITE ASSESSMENT REPORTS..... C55

C1 MINE SITE ASSESSMENT COMPONENTS.....	C55
C2 COMPILATION OF HISTORICAL MINE DATA	C55
C3 FIELD INVESTIGATION ACTIVITIES	C59
C4 KENO HILL/DUBLIN GULCH WATERSHED WATER QUALITY	C60

APPENDIX A - WATER QUALITY MONITORING DATA DUBLIN GULCH AND KENO VALLEY AREA

APPENDIX B - WHITE MOUNTAIN ENVIRONMENTAL CONSULTING 1995 "Fish and Fish Habitat Assessment Conducted Near Elsa, Yukon for United Keno Hill Mines August 1994 - September 1995"

VOLUME I (cont.)

LIST OF FIGURES –

I1	General Location Map	I5
I2	Study Area Overview	I6
I3	Study Area: Dublin Gulch	I7
I4	Study Area: Keno Valley East	I8
I5	Study Area: Keno Valley West.....	I9
A1	Study Area Catchment Basins & Hydrological Characteristics: Dublin Gulch.....	A26
A2	Study Area Catchment Basins & Hydrological Characteristics: Keno Valley West	A27
A3	Study Area Catchment Basins & Hydrological Characteristics: Keno Valley East.....	A28
A4	Mean Annual Runoff as a Function of Elevation, Keno Valley Area	A30
A5	Average Monthly Discharges of Seven Regional Stations	A32
A6	Water Quality Monitoring Sites, Dublin Gulch	A35
A7	Water Quality Monitoring Sites, Keno Valley West	A38
A8	Water Quality Monitoring Sites, Keno Valley East.....	A39
B1	Current Land Use/Land Tenure Dublin Gulch	B54a
B2	Current Land Use/Land Tenure Keno Valley West.....	B54b
B3	Current Land Use/Land Tenure Keno Valley East	B54c
B4	Registered Trapping Concessions.....	B54d
B5	Game Management Zones and Outfitting Concessions	B54e
C1	Mine Site Locations Dublin Gulch	C56
C2	Mine Site Locations Keno Valley East.....	C57
C3	Mine Site Locations Keno Valley West.....	C58
C4	Regional Watershed Sampling Points, Dublin Gulch.....	C62
C5	Regional Watershed Sampling Points, Keno Valley East.....	C63
C6	Regional Watershed Sampling Points, Keno Valley West	C64

LIST OF TABLES –

I1	Keno Valley/Dublin Gulch Mine Site List	I10
A1	Catchment Area Quarterly Flows	A24
A2	Water Quality Monitoring Stations, Dublin Gulch.....	A34
A3	Water Quality Monitoring Stations, Keno Valley Area.....	A37
B1	Current Land Tenure in Keno valley Study Area	B48
B2	Tourism/Recreational Land Use Activities, Keno Valley Study Area.....	B50

VOLUME II – Keno Valley Sites #1 to #20

Figures, photos and analytical results attached to individual site reports.

VOLUME III – Keno Valley Sites #21 to #40

Figures, photos and analytical results attached to individual site reports.

VOLUME IV – Keno Valley Sites #41 to #66, #68 to #70

Figures, photos and analytical results attached to individual site reports.

VOLUME V – Keno Valley Sites #71 to #73, #75 to #81

Dublin Gulch Sites #85 to #86, #88 to #94, and #96

Figures, photos and analytical results attached to individual site reports.

Site #78 (Elsa Village): figure in pocket.