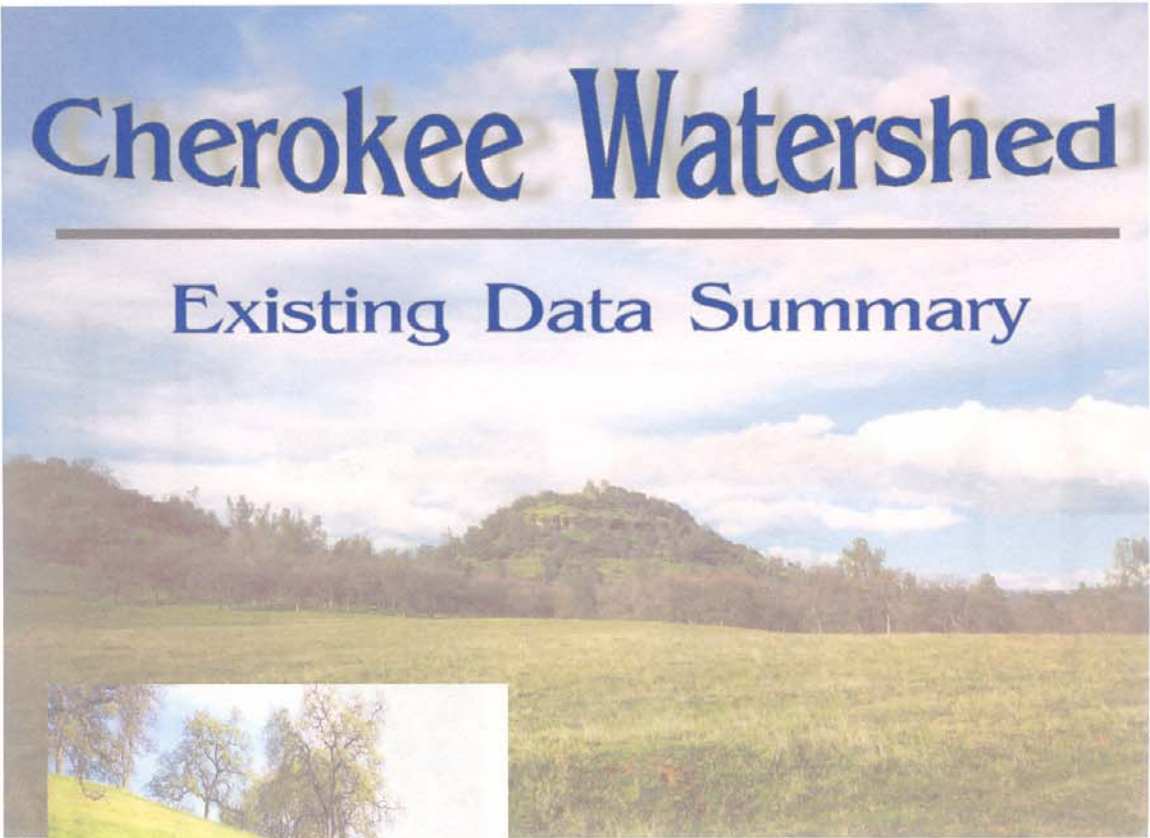


Cherokee Watershed

Existing Data Summary



April 2005



Prepared for:
Cherokee Watershed Alliance
Butte County Department of Water and Resource Conservation

Prepared By: Western Resource Associates

TABLE OF CONTENTS

FORWARD	1
INTRODUCTION	3
MAPS	4
<i>Cherokee Watershed</i>	4
<i>Cherokee Watershed Mine and the “Cherokee Strip”</i>	5
<i>Cherokee Watershed and Mine Site Locations</i>	6
<i>Cherokee Watershed and Basin Management Development Boundaries</i>	7
<i>Cherokee Sub-Inventory Unit</i>	8
<i>Cherokee Watershed Sampling Locations</i>	9
DEFINITIONS	10
PRIORITY ISSUES	12
GROUNDWATER	13
<i>Seeking an Understanding of the Groundwater Aquifer Systems in the Northern Sacramento Valley</i>	13
<i>Hydrogeochemistry of the Cherokee Creek Watershed</i>	13
<i>Butte County Water Inventory and Analysis</i>	13
<i>Butte County Resource Conservation District. Long Range Plan</i>	14
<i>Groundwater Level Monitoring: What Is It? How Is It Done? Why Do It?</i>	15
<i>Hydrogeologic Investigations for Ground Water Resources in Complex Metamorphic Terrane</i>	15
<i>Drought Contingency Plans for Selected Small Communities</i>	15
<i>Butte County Department of Water and Resource Conservation. Urban Water Demand Forecast</i>	16
<i>Sacramento Valley Basin Ground Water Levels, Butte County</i>	16
<i>Integrated Water Resources Plan, Volumes I, II and Executive Summary</i>	16
<i>Paradise Ridge Memorandum of Understanding Summary Status Report</i>	17
<i>Drink Water Source Assessment and Program Evaluation of the Domestic Water Well Serving Spring Valley School Water System</i>	18
<i>Basin Management Objective Development Packet, Cherokee</i>	18
<i>Basin Management Objective Development Packet, Pentz</i>	19
<i>Basin Management Objective Development Packet Western Canal</i>	19
<i>Groundwater Management Plan</i>	20
<i>No. R5-2003-0096 for Mineral Resources LLC, and Goodall Estate Company, Morris Ravine Quarry</i>	21
<i>Order No. R5-2003-0143, Waste Discharge Requirements for Butte-Glenn Community College District, Butte College Wastewater Treatment Plan</i>	21
SURFACE WATER	23
<i>Cherokee Watershed Project Report: Water Quality</i>	23
<i>California Department of Water Resources, Northern District: Water Quality Section</i>	23

<i>Mechoopda Indian Tribe: Chico Casino Fee-to-Trust Acquisition Environmental Assessment</i> -----	24
<i>Paradise Urban Watershed Surface Water Quality</i> -----	24
<i>Occurrence and transport of diazinon in the Sacramento River, California and selected tributaries during three winter storms, January-February 2000</i> -----	25
<i>U.S. Geological Survey Water Quality Database</i> -----	25
<i>Butte County Resource Conservation District. Long Range Plan</i> -----	25
<i>P.I. Sediment/Flood Analysis</i> -----	25
<i>Notice of Exemption. California Department of Fish and Game</i> -----	26
<i>The Butte College Wildlife Refuge</i> -----	26
<i>Butte County Watershed Model Review</i> -----	26
<i>Butte Creek Watershed Existing Conditions Report</i> -----	26
<i>Basin Management Objective Development Packet, Cherokee</i> -----	27
<i>Basin Management Objective Development Packet, Pentz</i> -----	27
<i>Basin Management Objective Development Packet, Western Canal</i> -----	27
<i>Agricultural Water Demand Forecast</i> -----	27
<i>Integrated Water Resources Plan, Volumes I, II and Executive Summary</i> -----	27
<i>Cherokee Canal Sedimentation Problem</i> -----	28
<i>Cherokee Canal Sedimentation Study, Summary of Findings</i> -----	28
<i>Data Collection Report (draft) Cherokee Canal Section 1135 Ecosystem Restoration Project</i> -----	28
<i>Cherokee Canal, A Sediment Removal, Streambed Alteration Project</i> -----	28
<i>Debris Deposition in the Cherokee Canal Flood Control Project. Memorandum Report: February 1970.</i> -----	29
<i>Memorandum for the Cherokee Canal Capacity Restoration Project Specification No. 74-09</i> -----	29
<i>Urban Water Demand Forecast</i> -----	29
<i>Lime Saddle Water Supply Reconnaissance Study Letter Report</i> -----	29
<i>Paradise Ridge Memorandum of Understanding Summary Status Report</i> -----	30
<i>Study of Miocene and Hendricks Canals as Potential Sources of Water for the Paradise Ridge</i> -----	30
<i>Memorandum from G. Donald Meixner, Retired Annuitant, Department of Water Resources to George T. Qualley, Chief, Division of Flood Management</i> -----	31
<i>Butte County Water Inventory and Analysis</i> -----	31
<i>Cherokee Canal General Design 27</i> -----	31
LAND USE -----	32
<i>Mechoopda Indian Tribe: Chico Casino Fee-to-Trust Acquisition Environmental Assessment</i> -----	32
<i>Fire Management Plan 2003</i> -----	32
<i>Hydrogeochemistry of the Cherokee Creek Watershed</i> -----	32
<i>Agricultural Water Demand Forecast</i> -----	32
<i>Integrated Water Resources Plan, Volumes I, II and Executive Summary</i> -----	33
<i>Butte County Water Inventory and Analysis</i> -----	33
<i>Objective Development Packet, Cherokee</i> -----	33
<i>Butte Creek Watershed Existing Conditions Report</i> -----	33

<i>History of Butte County, Volume I: 1840-1919</i>	34
<i>“150 Year-old Mine May be Revived.”</i>	34
<i>Sugarloaf Mine at Cherokee Mining Application and Reclamation Plan</i>	35
<i>The Butte College Wildlife Refuge</i>	35
PHYSICAL SETTING	36
<i>Paradise Ridge Memorandum of Understanding Summary Status Report</i>	36
<i>Agricultural Water Demand Forecast</i>	36
<i>Basin Management Objective Development Packet, Cherokee</i>	36
<i>Basin Management Objective Development Packet, Western Canal</i>	37
<i>The Butte College Wildlife Refuge</i>	37
GEOLOGIC SETTING	38
<i>Paradise Ridge Memorandum of Understanding Summary Status Report</i>	38
<i>Basin Management Objective Development Packet, Cherokee</i>	38
<i>Basin Management Objective Development Packet, Pentz</i>	38
<i>Basin Management Objective Development Packet, Western Canal</i>	38
VEGETATION	40
<i>Mechoopda Indian Tribe: Chico Casino Fee-to-Trust Acquisition Environmental Assessment</i>	40
<i>The Major Native and Introduced Edible Plants of Butte County, California</i>	40
<i>Fire Management Plan 2003</i>	40
<i>Butte County Resource Conservation District. Long Range Plan</i>	41
<i>Butte Creek Watershed Existing Conditions Report</i>	41
<i>The Butte College Wildlife Refuge</i>	41
<i>The Assessment and Protection of Rare and Endangered Plants of Butte County, California</i>	42
<i>Manual of the Vascular Plants of Butte County, California</i>	42
<i>Integrated Water Resources Plan, Volumes I, II and Executive Summary</i>	42
WILDLIFE	43
<i>Butte Creek Watershed Existing Conditions Report</i>	43
<i>Summary of Sensitive, State-Threatened or Endangered Species Near or Within the Cherokee Watershed</i>	43
<i>The Butte College Wildlife Refuge</i>	44
DATA GAPS	45
BIBLIOGRAPHY	46