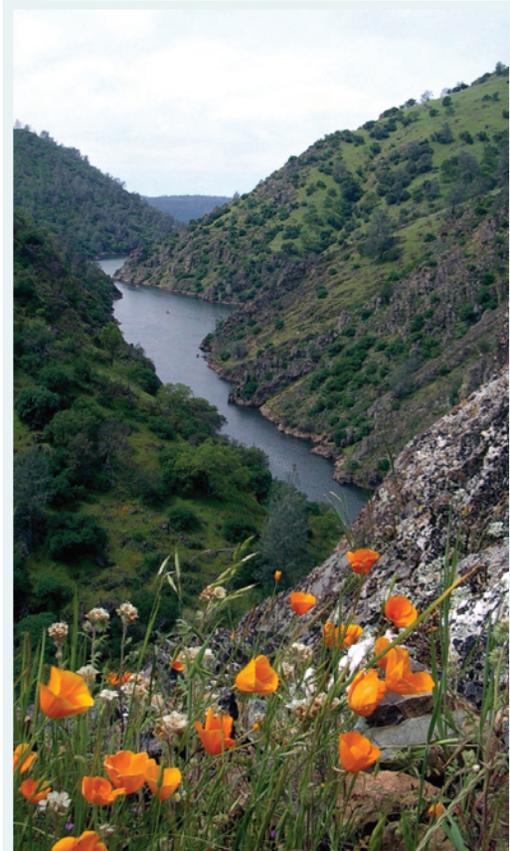


Mokelumne Watershed Master Plan

East Bay Municipal Utility District

April 2008



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1.0 Introduction and Background

The mission of the East Bay Municipal Utility District is:

“To manage the natural resources with which the District is entrusted; to provide reliable, high quality water and wastewater services at fair and reasonable rates for the people of the East Bay; and to preserve and protect the environment for future generations.”

District values embedded in business operations to achieve this mission include:

- Exercise responsible financial management
- Ensure fair rates and charges
- Provide responsive customer service
- Promote ethical behavior in the conduct of District business
- Ensure fair and open processes involving the public
- Provide a healthy work environment
- Promote diversity and equality in personnel matters and contracting
- Promote environmental responsibility and sustainability

In 2006, the District established its strategic plan outlining the overall direction on how to respond to future challenges and changing priorities while meeting its mission and remaining true to its values. The District’s strategies to achieve its goal of Water Quality and Environmental Protection include:

“Managing the Mokelumne Watershed in a way that ensures a high quality water supply and protects natural resources while providing appropriate public access”

and

“Preparing master plans addressing the standards and protocols by geographic area that will protect natural resources and ensure drinking water quality”

In 2006, the District Board of Directors (Board) directed staff to conduct an assessment of land use in the Mokelumne Watershed¹ with the goal of preparing an updated land use master plan outlining policy and providing long-term guidance in conformance with the District’s mission, values, and 2006 strategic plan. This document is the product of that effort. The District’s land use activities in the Mokelumne Watershed are framed by several regulatory, licensing, and operational requirements. These requirements are often interrelated and can lead to competing land use demands, for example protecting water quality and providing for public recreational access. This plan provides strategies to best manage sometimes competing land uses while meeting both the District’s mission and its regulatory requirements.

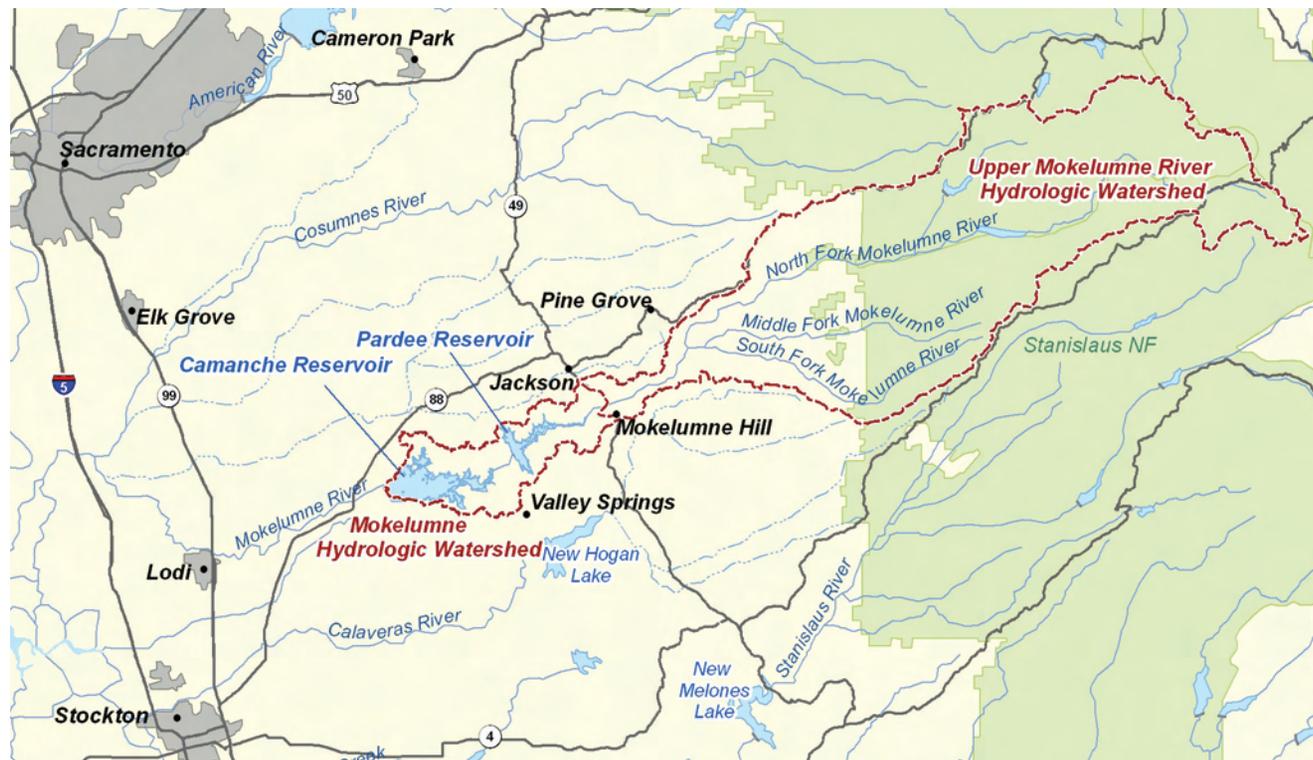
¹ For the purposes of this plan, the Mokelumne Watershed refers to the District-owned portions of the hydrologic watersheds of Pardee and Camanche Reservoirs. It does not include the watershed of the Mokelumne River upstream of Pardee Reservoir. The upstream portion is referred to as the Upper Mokelumne River Watershed.





The District owns and manages approximately 9,000 acres of water surface and 19,000 acres of surrounding land in the Mokelumne Watershed. These generally undeveloped lands provide natural habitat for aquatic and terrestrial species, support ecosystem functions, protect water supply in Pardee and Camanche Reservoirs, and provide unique recreational and educational experiences. The District is also a member of the Upper Mokelumne River Joint Powers Authority (JPA) whose purpose is collaboration on watershed

projects to protect and improve water quality, watershed planning, legislative advocacy, and utility-related matters in the approximately 550-square-mile Upper Mokelumne River Watershed. Through participation in the JPA and implementation of best land use management practices in the Mokelumne Watershed, the District seeks to achieve its water supply and environmental goals while meeting regulatory requirements to provide public recreational access to Watershed lands.



1.1 Purpose and Scope

This Mokelumne Watershed Master Plan (MWMP) provides long-term policy and guidance for future use and management of the lands and water owned by the District within the Mokelumne Watershed. The MWMP outlines the land use categories for the Mokelumne Watershed and summarizes land use goals, strategies to achieve those goals, and the objectives associated with those strategies in five areas: natural resources, community use, asset, communication, and financial management.

As part of the master planning process, the District conducted a watershed and facilities assessment to evaluate the effect of land use on water quality in the reservoirs and ecologic health. Additionally, the financial cost of District watershed programs was reviewed. The results of the assessment were used to identify and evaluate future alternative land uses. The alternatives provided the Board with an overview of the effects of prioritizing certain land uses over others. The results of the alternatives analysis were presented to the Board in August 2007. The Board directed staff to prepare the MWMP to reflect the land use alternative that included a dual approach to natural systems and community use, with the preparation of plans and implementation of programs to increase watershed protection and restoration efforts.

The findings of the watershed assessment are documented in the Mokelumne Watershed and Facilities Assessment Report (2007). Additionally, monitoring guidelines will be prepared to use as a tool for the adaptive management of watershed land uses. The monitoring guidelines are designed to support continued evaluation of the effectiveness of watershed land use policy in meeting EBMUD goals for water quality, environmental protection, and fiscal responsibility, and to support staff in the implementation of the watershed management programs. The guidelines will specifically address the development and application of appropriate metrics, measures, indicators, and targets to assess management and operational performance.



1.2 Guiding Principles

To support the master planning process the Board approved a project-specific set of guiding principles that reflect the District's mission statement, strategic goals, and related business strategies. These principles affirmed that environmental values will be protected

and enhanced and that financial considerations will be included in land use and resource management decisions. The principles were used to frame discussions and support decision-making during the master planning process.

- 1. Protect and enhance water quality and habitat health through development and implementation of a Mokelumne Watershed Master Plan using adaptive management strategies.**
- 2. Anticipate regulatory trends within the Mokelumne Watershed and establish a program that provides the District the greatest flexibility in meeting future requirements.**
- 3. Anticipate regional growth and recreational demand and develop guidelines to proactively respond to that growth and the associated potential impacts to water quality and ecological health.**
- 4. Prioritize the use of District watershed property to meet core business requirements for water supply, water quality and regulatory compliance, and complementary related uses including open space, recreation, and public education.**
- 5. Manage watershed activities in such a manner so as to provide the greatest value to ratepayers.**
- 6. Establish a program to facilitate meaningful public participation in the master planning process through identification and implementation of education and outreach programs.**
- 7. Consider the impact to ratepayers in determining the appropriateness of watershed activities that are not primarily related to the protection of water quality.**



1.3 Relationship of Master Plan to Other Project Documents

The MWMP is one of four documents prepared during the master planning process. The others are:

- Watershed and Facilities Assessment Report
- Program Environmental Impact Report
- Mokelumne Monitoring Guidelines

The MWMP and associated Program Environmental Impact Report (EIR) are simultaneously adopted and certified, respectively, by the District Board of Directors. The Assessment Report summarizes the technical findings that support the policy direction provided in the MWMP and the conclusions made in the EIR. Additionally, the Mokelumne Monitoring Guidelines recommend processes, metrics, and measures to adaptively manage the watershed and assess the policy and guidance included herein. The guidelines, like the management direction, are designed to be reviewed and updated on a regular basis. The guidelines furthermore address not only water quality and ecological health, but also fiscal management. The guidelines inform several existing monitoring programs, such as the source water monitoring program, the financial information system, and ecological monitoring programs.

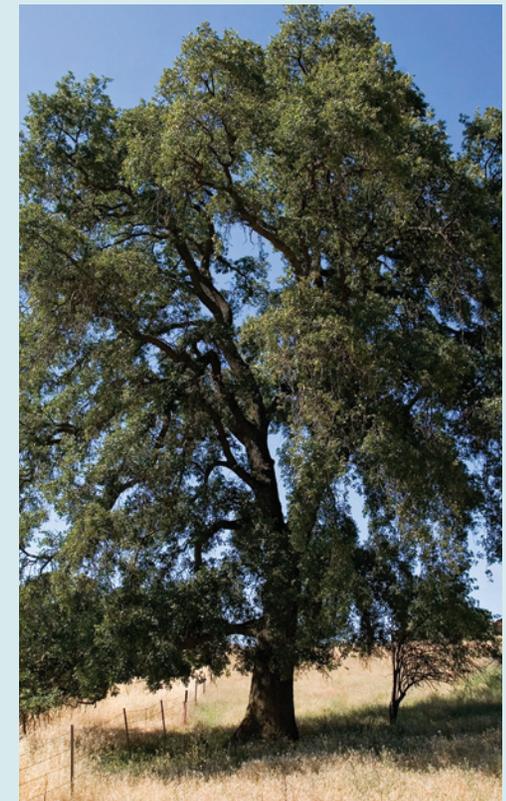


1.4 Public Involvement

The master planning process included public outreach. A Community Liaison Committee (CLC) was formed to solicit public input during the watershed and facilities assessment, the identification and evaluation of land use alternatives, and the drafting of the MWMP policy and management guidelines. The CLC members represented various stakeholder interests in the watershed. Additionally, public information meetings were held during the master planning process. The MWMP was subject to environmental review in accordance with the requirements of the California Environmental Quality Act (CEQA). The draft MWMP and associated EIR were issued for formal public comment prior to the Board adoption of the MWMP and certification of the EIR.

Participating CLC members

Jack Boeding, Calaveras County Chamber of Commerce
Bill Claudino, Calaveras County
Bob Dean, California Native Plant Society
James Eicher, Bureau of Land Management
Billi Blue Ellison, Ione Band of Miwok
Richard Forster, Amador County
Robert Garamendi, Rancher
Arthur Geen, Alameda County Taxpayer Association
Kris Hunt, Contra Costa Taxpayers Association
Bruce Kern, East Bay Economic Development Alliance
Chandler Martin, San Joaquin County
Marjie McGowen, Camanche North Shore Homeowners Association
David Richards, Amador County Chamber of Commerce
Sue Shalvey, Mokelumne Coast to Crest Trail
Tracey Towner-Yep, Amador County Recreation Agency
Bob Van Bibber, Camanche South Shore Homeowners Association
Chris Wright, Foothill Conservancy



2.0 Land Use Categories and Management Activities

2.1 Land Use Categories and Map

The District-owned lands referred to as the Mokelumne Watershed extend from from US Highway 49 westward toward and including the Mokelumne River Day Use Area below Camanche Dam. They represent approximately 44% of the land area within the Mokelumne hydrologic watershed. The Mokelumne Watershed lands are divided into six geographically based categories as summarized below and shown in Figure 1.

Watershed Management - Large areas managed for the primary goal of protection of water quality, fire control, and ecological integrity. These lands are generally undeveloped rangeland. Public access to these lands is by permit only.

Natural Preserve - Areas managed for the creation, restoration, and protection of natural systems (aquatic, riparian, and upland habitats) surrounding Pardee and Camanche reservoirs and their tributaries. These areas are typically closed to public access with the exception of permitted access for livestock grazing, educational research and study, and trails connecting with lands in other land use categories.

Recreation Areas - Parcels and sites of various sizes for developed recreation activities. These areas include:

- Camanche South Shore Recreation Area
- Camanche North Shore Recreation Area
- Camanche Hills Hunting Preserve
- Pardee Recreation Area
- Mokelumne River Day Use Area

- Middle Bar Boat Take-out Facility

Community Resource - Generally small areas that support resources of specific community interest, for example, cultural and historical sites, vista points, unique geologic features, or unique vegetative communities. Access is typically by permit only.

Mobilehome Park - These are the three mobilehome parks at Camanche Reservoir, two on Camanche North Shore and one on Camanche South Shore.

District Operation - Lands reserved for the exclusive use of the District in carrying out its mission and related business activities, most of which are closed to the public. Exceptions include District offices serving public recreational and other permitted uses and roadways the District makes available for public use. Operational areas include:

- Camanche Dam, spillway, and power generation facilities
- Pardee Dam, spillway, and power generation facilities
- Pardee Center
- Mokelumne Watershed Offices
- Camanche Ranger Headquarters
- Mokelumne River Fish Hatchery
- Aqueduct and accessory facilities
- Utility corridors and accessory facilities

These categories reflect current and allowable future land uses.

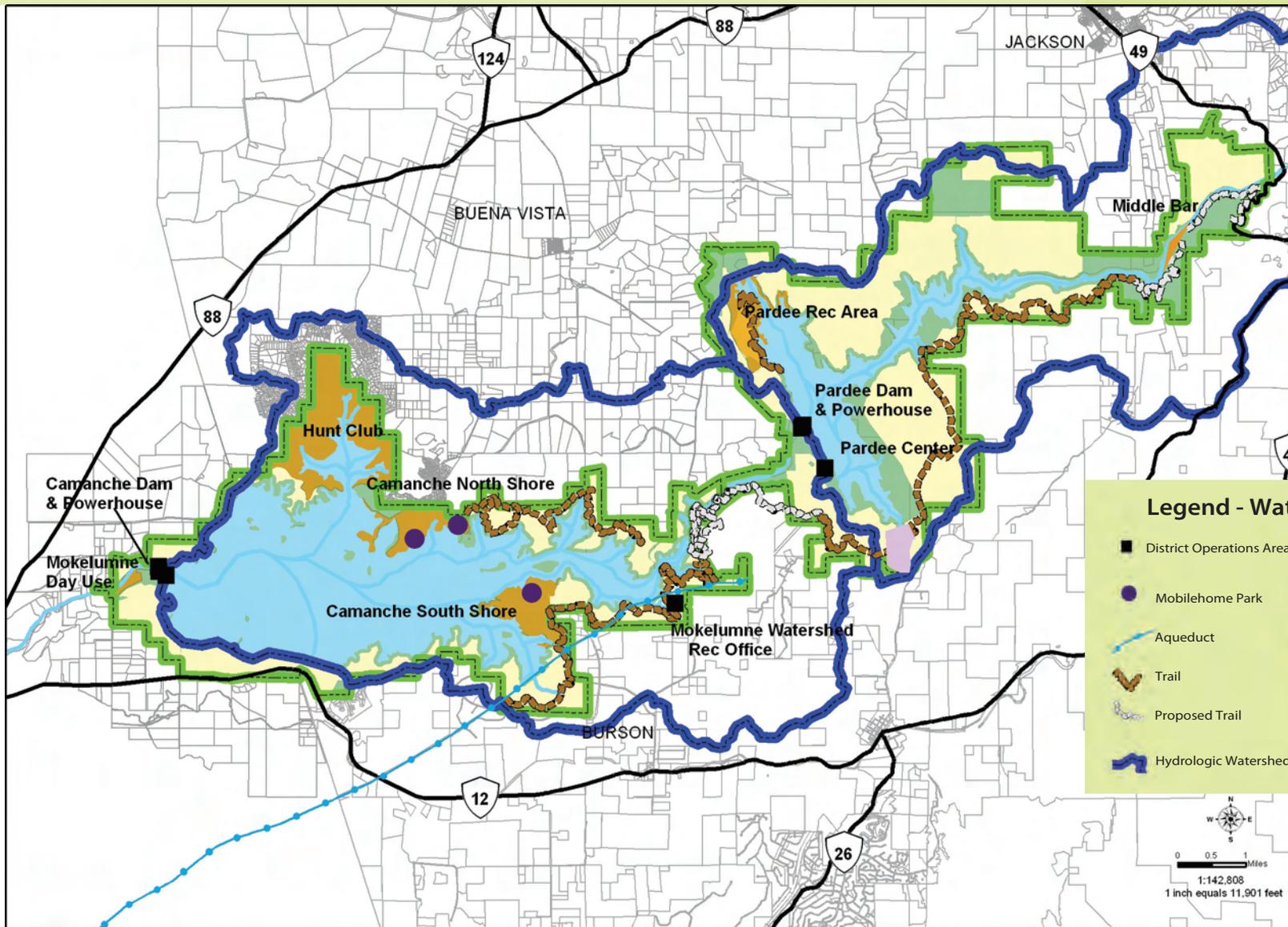


Figure 1. Mokelumne Watershed Land Use Categories

2.2 District Management of Land Use

As in the East Bay, District management of the Mokelumne Watershed is organized under three resource-based management areas: Natural Resources, Community Use, and Asset Management. These are further divided into management sub-areas. To support District policy on public participation and fiscal management, two additional management areas are identified: communication and financial management. The District implements one or more programs and/or activities under each management sub-area. District management areas, sub-areas, programs, and activities are summarized below.

MANAGEMENT AREAS AND SUB-AREAS	PROGRAM AND/OR ACTIVITY
<i>Natural Resource Management</i>	
Rangeland management	Rangeland management (grazing) program
Fire management	Fire control and management program
Ecological integrity	Integrated Pest Management (IPM) program Endangered Species Act compliance Environmental restoration Sponsored volunteer tree planting and watershed clean-up events
Water quality management	Source water monitoring program Water and wastewater treatment systems monitoring Storm water monitoring





MANAGEMENT AREAS AND SUB-AREAS	PROGRAM AND/OR ACTIVITY
<i>Community Use Management</i>	
Recreation	Camanche North and South Shore Recreation Area concessions Pardee Recreation Area concessions Camanche Hills Hunting Preserve concessions Mokelumne River Day Use Area Middle Bar Boat Take-out Facility Hiking trails (construction and maintenance)
Education	Stewardship through education program District-sponsored annual hikes/trips (wildflowers, bald eagle tours) Mokelumne River Fish Hatchery
Cultural and historical resources	Inventory of historic and cultural artifacts as found/identified
Mobilehome park	Three mobilehome parks managed through Camanche recreation area concessionaire
<i>Asset Management</i>	
Infrastructure	Preventative and corrective maintenance system Asset management system
Land ownership and easements	Watershed environmental easement and land purchase program
<i>Communications Management</i>	
Community outreach Interdepartmental coordination	
<i>Financial Management</i>	
Operating and capital budgeting processes	

