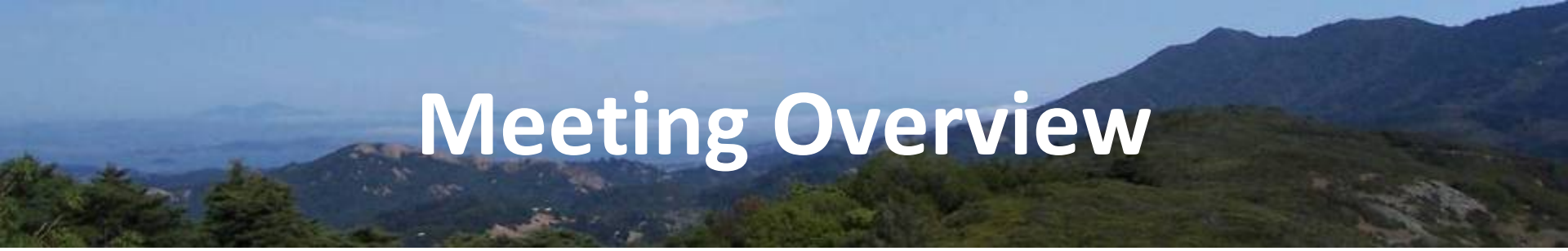
Ebike
Community Advisory Committee

Meeting #3

MARIN MUNICIPAL
WATER DISTRICT

November 12, 2019



Meeting Overview

- CAC Updates and Follow-up
- Presentation: Environmental and Physical Factors Relating to Ebikes
- Presentation: Watershed User Survey
- Meeting Outcomes
- Public Comment

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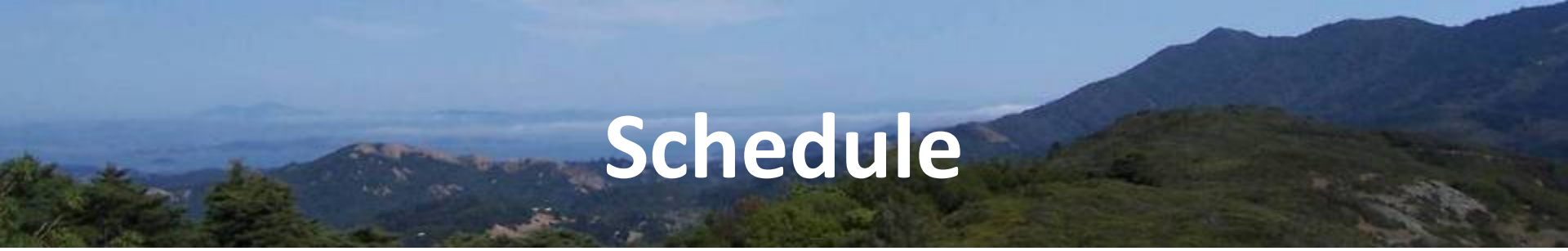

Schedule

Date	Meeting Description
November 12, 2019	Ebikes and the physical, natural, cultural, and social environment of Mt. Tamalpais; User survey discussion
December 4, 2019	Ebike Demo
December 10, 2019	Ebike users in relation to other user groups; user survey results
January 14, 2020	Safety issues associated with e-bikes
February 11, 2020	Regulation, enforcement protocols, and educational opportunities
March 10, 2020	Pros/cons discussion of recommendations
April 14, 2020	Review final report and conclusion of the process

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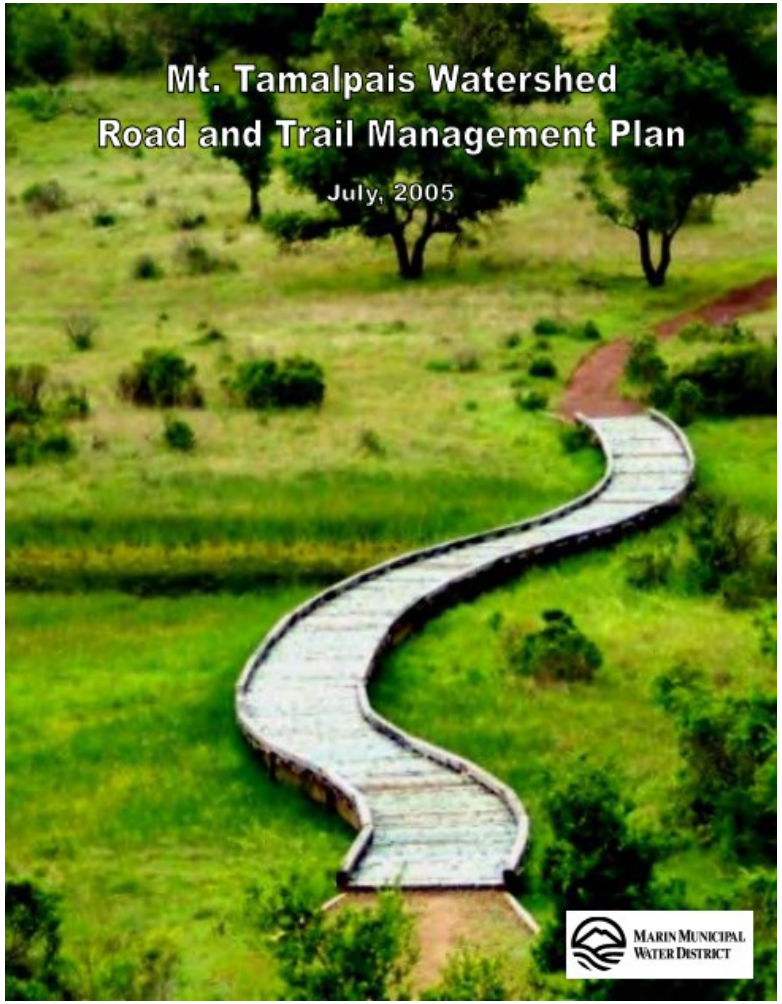
Environmental and Physical Factors

- What are Other Agencies Doing?
- MMWD Board Policy 7
- Review of Roads and Trails Management Plan (RTMP)
- Overview of Physical and Environmental Considerations



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Other Agencies Approaches

Is MMWD the only Bay Area agency with these questions?

… No.

- Marin County Parks
  - Class 1 & 2 on paved multi-use pathways
- Golden Gate National Recreation Area
  - Allowed on routes open to bicycles
- Santa Clara County Parks
  - Allowed on routes open to bicycles, no CEQA
- East Bay Regional Parks
- East Bay Municipal Utility District
  - No Ebikes allowed
- San Mateo County Parks
  - Class 1 & 2 allowed, Coast- & Bay-side
- Mid-Peninsula Open Space District
  - Ebikes currently prohibited except for those with mobility issues *and* only on trails where bicycles are authorized
  - Ebike policy to be discussed at Nov. 20th Board meeting
  - CEQA analysis anticipated

MMWD Board Policy 7

PART 1-General Use and Management of the Mount Tamalpais Watershed

PART 2 - Biological Diversity

PART 3 - Erosion Control

PART 4 - Fire Management

PART 5 - Recreational Use

PART 6 - Watershed Commercial Use

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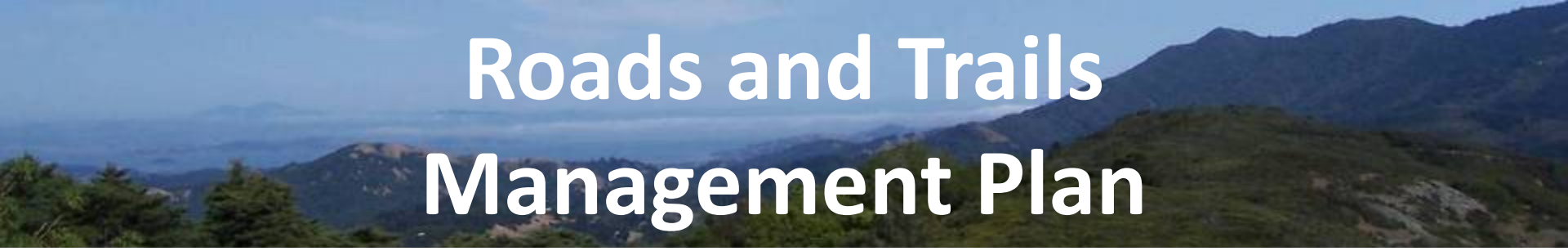

Roads and Trails Management Plan

The District has the responsibility, and opportunity, to control the impacts of roads and trails on its watershed lands. The RTMP provides the District with management guidelines for implementing Best Management Practices and modern design and maintenance standards that help protect water quality and minimize erosion.

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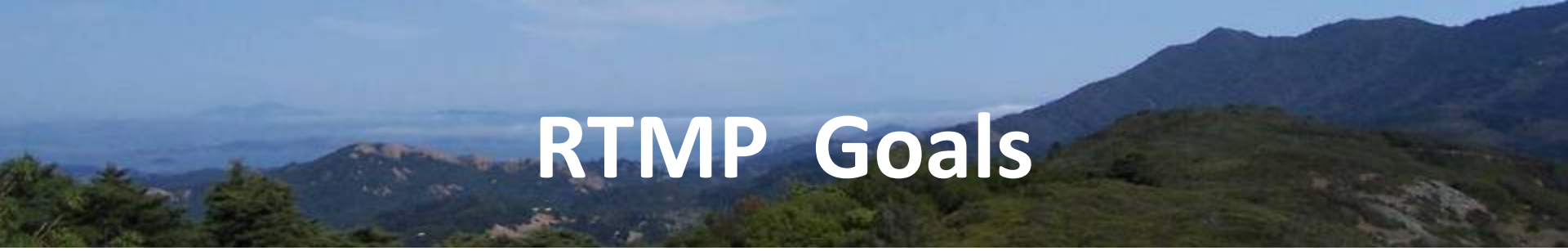

RTMP Goals

1. To improve water quality and minimize sediment into the creeks and reservoirs
2. To reduce the impacts of the road and trail network on wetlands, riparian areas, other environmentally sensitive habitats and special status plant and animal spices; and
3. To reduce the impact of the road and trail network on the Watershed's natural ecological function

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RTMP Objectives

1. To make decisions regarding the existing road and trail network
2. To implement Best Management Practices (BMPs) and Environmental Protection Measures in the upgrade and maintenance of the roads and trails in the watershed; and
3. To devise a system for managing all the roads and trails on the watershed.

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RTMP
Environmental Impact Report

EIR “Project” = MMWD’s water quality/supply mission

- Passive recreational uses acknowledged, but not directly addressed.
  - Construction
  - Operations
  - Maintenance
- Analyses focused on:
  - Hydrology/Water Quality
  - Vegetation
  - Wildlife
- Other Resources:
  - Air Quality & Noise (construction)
  - Recreation (proposed trail/road closures)

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RTMP Assumption

How do/would Ebikes relate to RTMP

- MMWD's primary role is steward of water quality and water supply in Watershed lands.
- RTMP's Work Plans & BMPs (i.e., implementation strategies) focus on improved/protected water quality.
- Passive recreational uses acknowledged, but not directly addressed:
  - Bicycles
  - Hiking/Running
  - Equestrian

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AB 1096

- AB 1096, codified as Section 21207.5 of the California Vehicle Code
  - Ebikes (Classes 1 & 2) are classified as a “bicycle”
  - Bicycles are currently allowed on MMWD services roads (not trails).
  - MMWD decision: Does it concur with and accept the AB 1096 definition?
- MMWD can decide whether Ebikes may or may not fit the State’s definition

Physical and Environmental Factors to Consider

Checklist of Physical and Environmental Factors

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☐ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology /Soils	☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials
☐ Hydrology / Water Quality	☐ Land Use / Planning	☐ Mineral Resources
☐ Noise	☐ Population / Housing	☐ Public Services
☐ Recreation	☐ Transportation~~/Traffic~~	☐ Tribal Cultural Resources
☐ Utilities / Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance

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Physical and Environmental Factors to Consider

- Biological Resources
- Geology/Soils
- Hydrology/Water Quality
- Noise
- Recreation
- Transportation
- Air Quality
- Hazards and Hazardous Materials
- Cultural Resources

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Considerations - Overview

The Challenge in Evaluating Physical and Environmental Factors:

- Very little technical work exists addressing the environmental effects of Ebikes.
- Very little technical work exists addressing the physical and/or environmental effects of mountain bikes.

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Research Relating to Physical and Environmental Factors

IMBA

Environmental Impacts of Mountain Biking: Science Review and Best Practices

By Jeff Marlon and Jeremy Wimpey

This article was originally published in **Managing Mountain Biking: IMBA's Guide to Providing Great Riding** *(/catalog/print-media), a 256-page book produced by IMBA in 2007. The book offers an essential collection of best practices for planning, designing, and managing successful trail networks and parks. Managing Mountain Biking is a companion to IMBA's trailbuilding how-to book* Trail Solutions.

Mountain Biking: A Review of the Ecological Effects

February 2010

MIISTAKIS INSTITUTE

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Ebike Watershed User Survey

Purpose:

- Identify common watershed recreation user types and demographic information
- Assess common perceptions of current Ebike usages among different user groups
- Determine attitudes toward e-bike use
- Inform Ebike CAC's discussion relating to other user groups

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Ebike Watershed User Survey

What the Survey Is and Is Not:

- The survey is not intended to be a scientific study of watershed recreation; it is intended to "take the temperature" of existing recreation attitudes towards Ebikes

- The survey is not going to provide statistically significant results; it is intended to provide general information to the Ebike CAC regarding other user's perceptions of Ebikes

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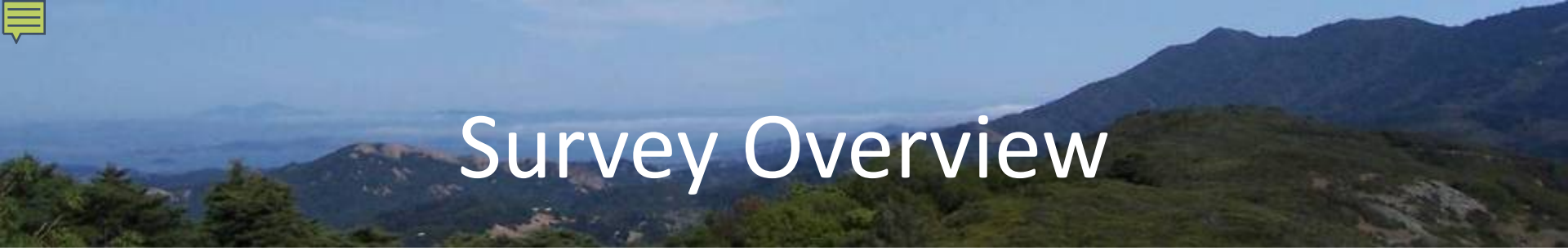

Survey Overview

- Demographics and Recreation User Information
  - Basic demographics (name, location, age)
  - Typical watershed usage amount per month
  - Recreation usage type

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Ebike Perceptions

- Familiarity with Ebikes
- Number of encounters with Ebikes
- Number of times riding an Ebike
- Preference for allowing Ebikes on natural surface fire roads

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Attitudes toward Common Ebike Concerns

- Erosive potential to natural surface fire roads
- Potential for conflict with other user groups
- Safety issues
- Opportunities for greater user access
- Preference for Ebike licensing program

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User Survey Next Steps

- Nov. 12: Receive input from CAC members Revise questions based on CAC input
- Nov. 13: Provide survey link to CAC members and MMWD staff for distribution
- Nov. 13-Dec. 4: Participants fill out survey
- Dec. 4: Close survey
- Dec. 4-Dec. 9: Staff process results
- Dec. 10: Present survey results to CAC

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