

**RIVERSIDE COUNTY**  
**Riverside, California**

**LAKE MATHEWS**  
**AREA DRAINAGE PLAN**

**Amendment No. 1**

**Adopted August 9, 2003**

**By the Riverside County Board of Supervisors**

**Prepared and Adopted Pursuant to  
Government Code Section 66483, et seq.  
and  
Section 10.25, Riverside County Ordinance No. 460**

## General Statement

This plan addresses the Lake Mathews watershed located in western Riverside County. All runoff generated within this 39 square mile area drains into Lake Mathews, the terminal reservoir for the Metropolitan Water District's Colorado River Aqueduct project. The area is generally located west of the I-215 freeway, south of Van Buren Boulevard, east of Lake Mathews and northerly of Santa Rosa Road. The majority of the watershed is within the boundary of Riverside County's First Supervisorial District and a small portion is within the Fifth Supervisorial District.

This Area Drainage Plan for controlling drainage and water quality problems in the Lake Mathews area, prepared by the Riverside County Flood Control and Water Conservation District, concludes that certain facilities are critically needed for an orderly and economical development of the area. The plan proposes construction of the facilities shown on the map contained herein, as a solution to the drainage and water quality problems in the watershed. The document entitled "Drainage Water Quality Management Plan for the Lake Mathews Watershed", dated December 1992, as approved by the Riverside County Board of Supervisors, including all maps, appendices and exhibits attached thereto, is adopted in its entirety as part of the Lake Mathews Area Drainage Plan.

## Lake Mathews Area Drainage Plan

The Lake Mathews Area Drainage Plan provides a comprehensive non-point source pollution control system consisting of water quality wetlands, sediment basins, a first-flush diversion and water quality pond, a dam and a detention basin. The major facilities are to be located along and adjacent to Cajalco Creek, the primary watercourse within the watershed. Cajalco Road is the main thoroughfare in the area, and will itself be relocated in certain areas to accommodate the planned improvements.

The Alexander Street Water Quality Wetland (East) facility is located at the upstream end of this regional system. It is a "flow-through" wetland, so called because all runoff emanating from its tributary watershed will be treated while flowing through.

The Alexander Street Water Quality Wetland (West) is located immediately downstream and westerly of the Alexander Street (East) facility. It will receive runoff from the southern part of the watershed and also provide a second-stage treatment for the water passing through the Alexander Street (East) facility. The Alexander Street Water Quality Wetland (West) will also function as a flow-through wetland.

The Tailings Water Quality Wetland is located downstream from the Alexander Street Water Quality Wetland (West). It will perform the same function as the Alexander Street facilities, but will be designed to only admit "first-flush" runoff and nuisance flows. Post first-flush flows will bypass the Tailings Water Quality Wetland and continue along Cajalco Creek to the Cajalco Creek Wetlands.

The Cajalco Creek Wetlands is a drainage corridor containing a series of enhanced riparian wetlands designed to accept discharge from the three upstream facilities and to provide further water quality treatment. An open corridor will be maintained in order to ensure that flood flows are contained within the floodway.

The Lake Mathews Estates Water Quality Pond is an off-channel, first-flush diversion facility that will receive and remove first-flush drainage water and nuisance flows from its tributary watershed. Such runoff will be retained in the pond for subsequent pumping into the irrigation system of a planned, adjacent golf course.

The Cajalco Creek Sediment Basin is sited immediately upstream of the Cajalco Creek Dam and Detention Basin so as to capture and remove bed load sediment from drainage water emanating from the entire Cajalco Creek watershed. The watershed includes the steep hillsides southeasterly of the lake which produces a significant volume of erosion sediments.

The key plan facility is the Cajalco Creek Dam and Detention Basin. It will be located immediately upstream of Lake Mathews and will provide multiple purposes: (i) regulation of flood peaks from the entire Cajalco Creek watershed (100 year frequency design), (ii) water storage for conservation and for the further reduction of pollutant loading by extended detention, and (iii) added protection of Lake Mathews water quality in the event of a catastrophic spill in the watershed.

Lake Mathews Sediment/Wetlands Nos. 1 through 5A are designed to mitigate the impacts of sediment and non-point pollutants from five particular canyons located south of Lake Mathews.

#### Drainage Fees

The estimated cost of constructing the drainage and water quality facilities required by the Lake Mathews Area Drainage Plan is \$20,272,000. A summary of the cost of each facility is listed on Table I.

**TABLE 1  
LAKE MATHEWS AREA DRAINAGE PLAN  
COST SUMMARY**

FACILITIES	AREA DRAINAGE PLAN TOTAL COST
Cajalco Creek Dam & Detention Basin	\$13,780,000
Lake Mathews Sediment/Wetland Basin 1	\$160,000
Lake Mathews Sediment/Wetland Basin 2	\$298,000
Lake Mathews Sediment/Wetland Basin 3	\$260,000
Lake Mathews Sediment/Wetland Basin 4A	\$228,000
Lake Mathews Sediment/Wetland Basin 5A	\$151,000
Cajalco Creek Sediment Basin	\$645,000
Lake Mathews Estates Water Quality Pond	\$1,134,000
Cajalco Creek Wetlands	\$871,000
Tailings Water Quality Wetland	\$283,000
Alexander St. Water Quality Wetland (East)	\$1,000,000
Alexander St. Water Quality Wetland (West)	\$1,462,000
<b>TOTAL</b>	<b>\$20,272,000</b>

The timing, amount and method of payment of the drainage fee, required as a condition of approval for the filing of a final subdivision map or parcel map within the watershed is as follows:

1. Drainage Fees

The current drainage fee for the entire drainage plan is \$1,823 per acre. For subdivision of lots greater than one acre in size, the fee shall be applied on a per lot basis, excepting however, for commercial, industrial and manufacturing lots, the fee shall nevertheless be applied on a per acre basis.

2. Time of Payment, Notice to Owners and Fee Calculations

The Riverside County Board of Supervisors has adopted the "Rules and Regulations for Administration of Area Drainage Plans", dated June 10, 1980, and as amended, formally setting forth numerous administration policies for implementing this and other area drainage plans within Riverside County. Among other provisions, the document defines the notification requirements to owners, and sets forth the computation methods for calculating the drainage fee applied to each lot. Said "Rules and Regulations for Administration of Area Drainage Plans", dated June 10, 1980 and as amended, is hereby made a part of this Lake Mathews Area Drainage Plan.

Findings

The Board of Supervisors finds and determines that:

1. The subdivision and development of land within the Lake Mathews Area Drainage Plan requires construction of the facilities described in the plan.
2. The required fee is fairly apportioned throughout the watershed, both on the basis of benefits conferred on properties that are proposed for subdivision and on the need for drainage and water quality facilities created by the proposed subdivision and development of all properties within the drainage area.

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**LAKE MATHEWS  
AREA DRAINAGE PLAN  
AMENDMENT NO. 1  
REVISED DRAINAGE FEE**

	<u><b>Per Acre Fee</b></u>
<b>Entire Drainage Plan Area</b>	<b>\$3,815</b>