


<h1>POLICY MANUAL</h1>	Date Adopted: August 24, 1999
Classification: ENGINEERING OPERATIONS	Date Last Amended: 04/24/13
Subject: Basin Sediment Monitoring and Management	Approved By: 

I. Guideline:


The District shall implement a basin sediment monitoring and management program to protect public health, groundwater quality, and the environment, and to ensure compliance with existing federal and state disposal levels and hazardous waste laws and regulations. In order to be sure standards are met, and to provide an additional margin of safety, the District shall manage basin soils with the goal of maintaining the concentration of total recoverable lead in basin sediments at no greater than 50% of the California Human Health Screening Levels for commercial land uses. The District's sediment management program is intended to manage the accumulation of pollutants in sediments in such a manner as to safely utilize sediments as construction fill material.

II. Regulatory Requirements:

A. Background

Lead is an environmental contaminant frequently present in urban storm water runoff. In the Fresno-Clovis metropolitan area, storm water runoff flows to and collects in detention and retention basins, where lead and other contaminants accumulate in basin sediments. Monitoring studies conducted by the District have shown that generally, lead will accumulate in basin sediments to levels approaching state and federal regulations before other storm water pollutants will reach regulatory thresholds.

To prevent accumulation and leaching of lead and other pollutants, and to maintain groundwater recharge efficiencies, the District must periodically remove basin sediments. Providing that sediments meet the regulatory definition of inert materials, and are not contaminated to levels exceeding waste disposal standards, they may be disposed of to land as ordinary fill material. Sediment that accumulates in the storm water basins and eventually used as construction fill material would not be considered hazardous waste unless it is demonstrated that the soil contains a listed waste at hazardous concentrations.

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B. Regulations and Guidelines

1. California Code of Regulation, Title 22, Division 22, Section 66261.24 (a)(2)(A): Sets forth hazardous waste criteria for lead and other hazardous substances. Materials that meet hazardous waste criteria, unless granted a variance, must be disposed of in a Class I hazardous waste disposal facility and handled and transported by a licensed hazardous waste transporter.
2. California Environmental Protection Agency, California Human Health Screening Levels: The California Human Health Screening Levels (CHHSLs) are concentrations of 54 hazardous chemicals in soil or soil gas that the California Environmental Protection Agency (Cal/EPA) considers to be below thresholds of concern for risks to human health. The use of CHHSLs is advisory in nature, voluntary and non-regulatory.

III. Procedure:

The District shall administer this policy through adherence to standardized operating procedures for basin sediment monitoring and removal activities, including:

- A. Representative and periodic sampling for total recoverable lead and other targeted pollutants, in areas of basin sediment accumulation, and on recreational floors of developed basins;
- B. Field and laboratory quality control and quality assurance measures to ensure sediment monitoring results are both reliable and accurate;
- C. Analyses and tracking of basin sediment monitoring results to adequately document compliance with applicable waste classification and disposal regulations, and to determine and make modifications to basin sediment removal schedules; and

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- D. Periodic removal of basin sediments, including documentation of where sediments were removed, quantities that were removed, and locations where removed sediments were transported and disposed.