

## **Notice of Intent Application Reception**

**File Number:** 302024-16

**Project Name:** Santiago Creek Dam Outlet Tower and Spillway Improvement

**Received:** 9/10/2024

**Date Posted:** 9/17/2024

**End of 21 Day Public Comment Period:** 10/08/2024

**Project City:** Unincorporated Orange County, South of Irvine Lake

**Project County:** Orange

**Applicant Organization:** Irvine Ranch Water District

**Applicant Name:** Kevin Burton

**Waterboard Staff:** TBA

### **Brief Description of Project:**

**Project Description:** To inform the location of the borrow site, the proposed geotechnical investigations are needed to provide necessary geologic and geotechnical information to fully characterize the existing soil and subsurface conditions of the potential borrow site material that would be used to construct an earthen berm and to reinforce the dam structure.

**Project Activities:** Vibracore samples would be taken from a barge; each vibracore sample would be 4 inches in diameter and 15 feet deep. The vibracore samples are expected to take two to three work days, with one additional day to mobilize and demobilize the barge from the boat ramp. At the test pit locations, contractors will use a small rubber-tracked mounted excavator with an excavation bucket for digging and tracking over brush. Each geotechnical test pit would be approximately 3 feet wide, 10 feet long, and 10 feet deep; the work area around each test pit is assumed to be 20 feet by 20 feet. Approximately 300 to 500 cubic yards of soil will be excavated from, and temporarily stockpiled adjacent to the test pit. Samples of subsurface materials would be collected from the test pits for examination and laboratory testing. Following the completion of the test pit, each hole would be backfilled using the dirt spoils that came from the hole. Two alternative test pits are included (i.e., TP-2a, TP-3a) and will be used if lake levels are low enough to allow them; the impact analysis assumes a worst-case scenario that both sites will be sampled, but in implementation, the field crew will select one set of sites to conduct sampling of soils. The test pits are expected to take three to four work days.