THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Information Technology Group

- **Information Technology Board Report June Update**

Summary

This report provides a summary of activites related to the Information Technology Group for June 2024

Purpose

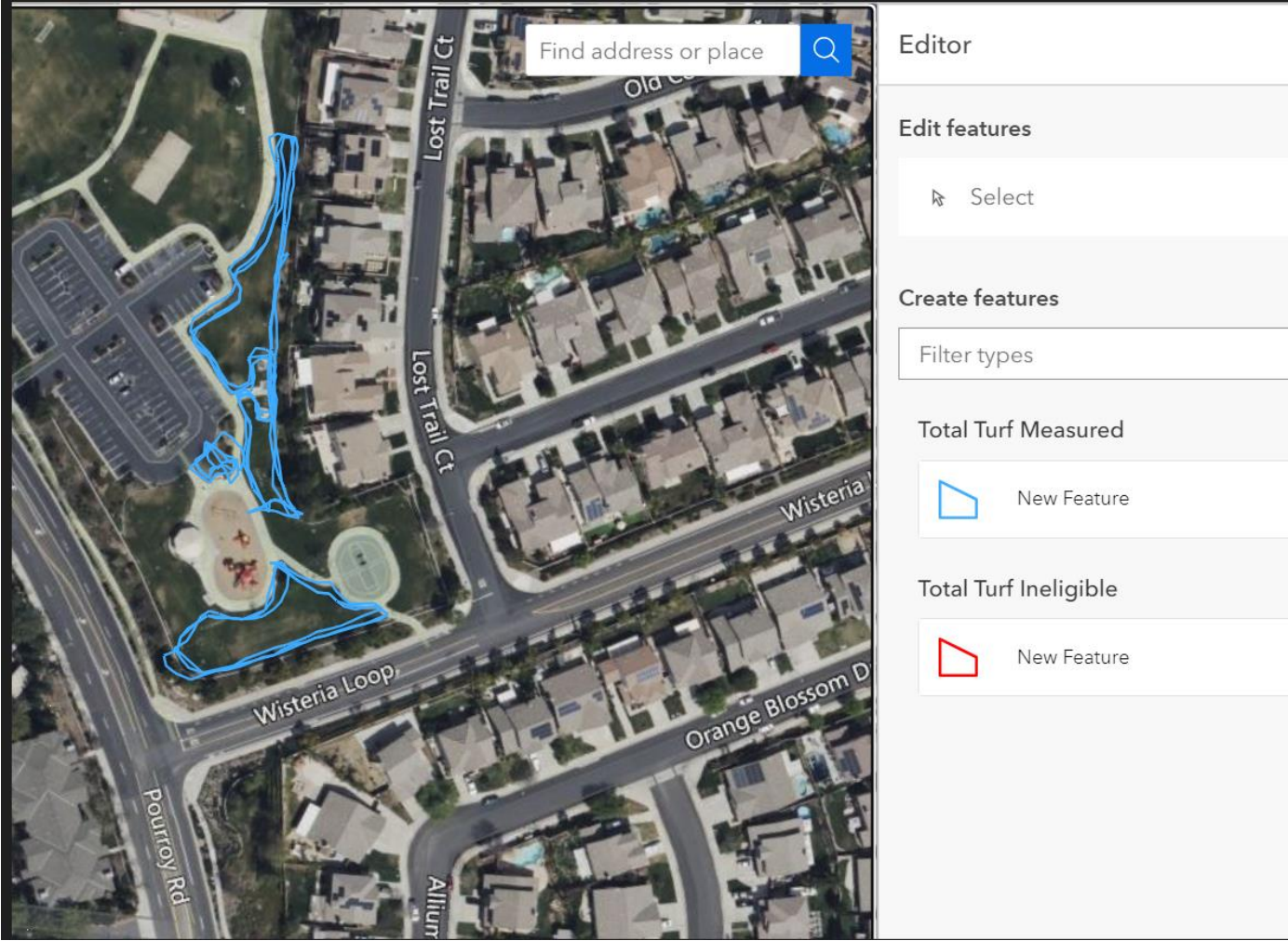Informational

Attachments

Attachment 1: Example of MWD's turf evaluation application.

Detailed Report

To boost water conservation efforts, Metropolitan has invested several hundred million dollars in the Turf Replacement Program. As part of the governance of this program, Metropolitan staff is performing spot checks of sites that have claimed a rebate for turf removal.

The ArcGIS application is built on top of the Information Technology group's enterprise Geographic Information System (GIS) platform. This platform allows GIS and the Water Resource Management staff to use mobile devices to easily collect spatial and tabular data on the various locations that have claimed this rebate to verify the efficacy of the program.

As a complete end-to-end solution, the mobile collection app feeds data into a desktop web mapping ArcGIS Experience application to visualize the surveys that have been taken to verify the turf rebates. The data is stored in a production enterprise geodatabase in PostgreSQL and will be used for regression analysis to determine changes in land use trends as we continually progress toward a more water-conscious Southern California.

Attachment 1: ArcGIS Field Maps allow users to draw a polygon around the study area to capture the eligible and ineligible turf. Additionally, users can stream as they walk the perimeter of the field, allowing the application to calculate the area.