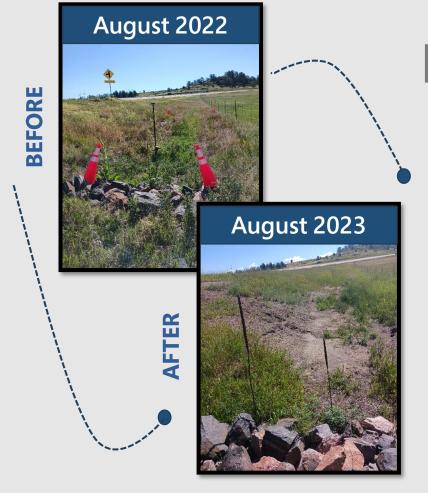


CDOT Water Quality



Swale Study

In 2023, CDOT continued its study to determine the effectiveness of subsoiling as a maintenance practice to reestablish adequate infiltration within permanent water quality swales. In 2022, CDOT subsoiled a swale within the Cherry Creek Basin and conducted infiltrometer tests before and after for comparison.



RESULTS

Results after subsoiling showed a **123%** increase in infiltration over the initial baseline. CDOT conducted infiltrometer tests in 2023 to determine how well the increased infiltration rates persisted over time. Unfortunately, heavy rains in May of 2023 caused a large amount of erosion and sediment deposition at the test site (see before and after pictures). Infiltrometer test results in 2023 showed a decrease in infiltration below the initial base line. Since the rains in May of 2023 were well above average, CDOT plans to conduct this test at another site within the basin in 2024.