



County DOT Yard

Infiltration Trench

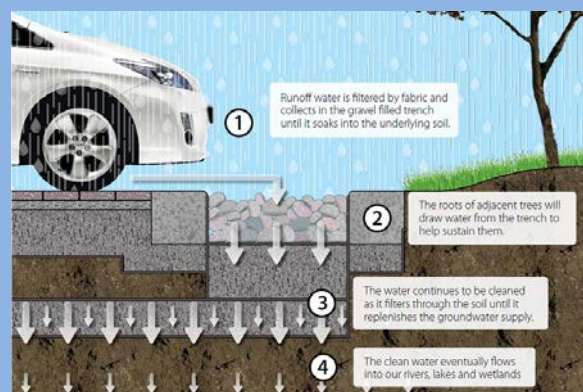


Mendocino County DOT Yard

120 E. Bush St., Fort Bragg

This project proposes to install a 150 foot infiltration trench with valley gutters at truck bays and a covered truck wash rack for pre-treatment with connection to city sewer.

An infiltration trench, is a type of best management practice (BMP) that is used to manage stormwater runoff, prevent flooding and downstream erosion, and improve water quality in an adjacent river, stream, lake or bay. It is a shallow excavated trench filled with gravel or crushed stone that is designed to infiltrate stormwater through permeable soils into the groundwater aquifer.



Benefit Table

- Primary
 - In-Stream flow improvement
 - Reduce stormwater run-off rate and volume
- Secondary
 - Re-establishment of natural hydrographs
 - Re-establishment of groundwater supply
- Cost
 - \$121,000.00
- Metric
 - Annual Rainfall – 43 inches
 - Impervious Area – .2 acres
 - Volume Captured (85th percentile) – .6 Acre-Feet per year
 - Infiltration Trench Cost per Acre-Foot – \$2,432.00

To further reduce sediment, an oil/water separator will be added, and concrete pavement will be incorporated in order to direct drainage directly to the infiltration trench.