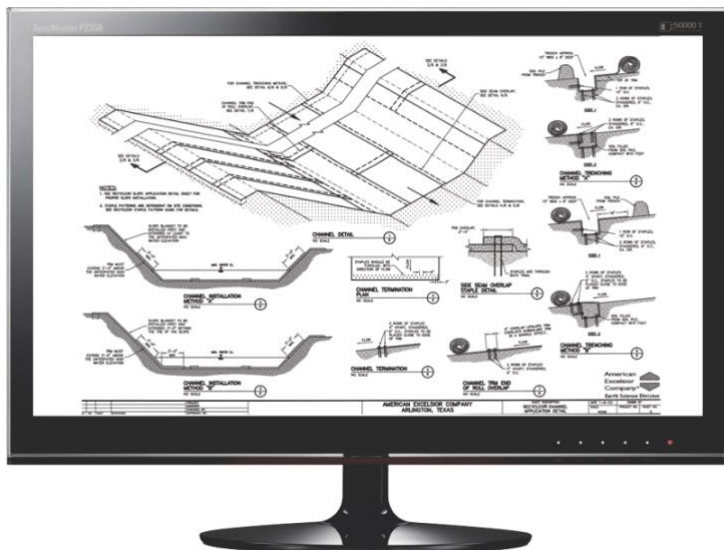# ErosionWorks® 10.0

For the most up-to-date design software for erosion and sediment control, get it from the company who has the only privately-owned test facility. ErosionLab, with over 21 years of testing experience and industry practices, has updated ErosionWorks with features only you can appreciate. Go to www.erosionworks.com and create YOUR report online – for **FREE**.

Features

- No more downloads - all program features now available online
- Filter products for 100% biodegradable components and/or functional longevity options
- Good, Better, Best recommendations for all slope and channel erosion calculations help you decide which rolled erosion control product and/or slope interruption device to use on your project
- Simplified Material Estimator functionality to determine quantities and installed costs
- Enhanced Digital Plan Book for easier specifying
- Searchable DOT approvals by state
- Report formats and management features based on user feedback
- Your own "My Reports" section to store and retrieve projects at anytime

Hillslope Erosion

- Single storm analysis tool determines the kinetic energy of the exact storm you need to design to. Determinations based on framework provided by the Revised Universal Soil Loss Equation (RUSLE).
- Average annual slope analysis, which is based on the standard time-proven RUSLE.
- Program provides a list of products and their performance capabilities for the topographic conditions presented by your specific project site.
- ErosionWorks calculates hillslope soil loss using all AEC RECPs and compares the soil loss to bare soil conditions.
- Hillslope calculations are based on the climatic, geotechnical, topographic, surface cover management, and support practice characteristics of your project site.
- Both single storm and average annual hillslope analyses are suitable for use on a variety of slope applications including, but not limited to: landfill side-slopes, highway cut and fill slopes, mine reclamation sites, pipelines, residential/commercial/industrial developments, parks, golf courses, airports, dams, etc.

Channel Erosion

- ErosionWorks allows you to analyze hydraulic conditions found in typical open channel applications. Options include: Trapezoidal, Parabolic, and Rectangular channel analysis along with Known Hydraulics for cases when the design hydraulic conditions have already been determined.
- Manning's equation is used to compute the hydraulic conditions based on your project's requirements.
- Expected flow depth, flow velocity, Froude number, and shear stress are calculated based on your anticipated flow conditions.
- Stability factors, considering both velocity and shear stress criteria, tell you the products that are suitable for the channel design hydraulic conditions entered.
- ErosionWorks channel erosion analyses are suitable for use on a variety of channel applications including, but not limited to: roadside ditches, drainage swales, streambanks, riverbeds, landfill downchutes, culvert aprons, diversions, levees, pipeline stream crossings, drop structures, spillways, etc.

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