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A view to the south over Passaúna reservoir reveals different land uses - forest, agriculture, and settlements - in the direct vicinity. (Photo: ...

Water Reservoirs: Better Protection of Water Resources

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Sediment Quality Assessment and Management: Insight and Progress

USACE adaptation pilots identified altered reservoir sedimentation rates that result from a changing climate and

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land use change as a critical area for agency missions and operations. USACE is the ...

Climate Change Adaptation -- Update Reservoir Sediment Information

Biogeochemical processes occurring in fluids that permeate oceanic crust make measurable contributions to the marine carbon cycle, but quantitative assessments of microbial impacts on this vast, ...

Multiple carbon incorporation strategies support microbial survival in cold seafloor crustal fluids

The Arizona Water Science Center (AzWSC) has specialized expertise in monitoring, measuring, and collecting reservoir and lake water and sediment for a variety of ... samples at depths of interest can ...

AzWSC Capabilities: Reservoir and

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Lake Monitoring and Assessment

In order to constrain models for subsurface microbial evolution, we compared CDA genomes from Africa, North America and Eurasia using single cell genomics ... abundance and biomass in seafloor ...

Evolutionary stasis of a deep subsurface microbial lineage

While sediment comes ... the County could use the baseline data to assess the extent of the damage. At present, lack of predevelopment information on damaged water resources is the main obstacle to ...

Understanding Erosion and Sediment Controls

Ji, U. Julien, P. Y. and Park, S. K. 2011. Sediment Flushing at the Nakdong River Estuary Barrage. Journal of Hydraulic Engineering, Vol. 137, Issue. 11, p. 1522.

Erosion and Sedimentation

Wetlands and riparian areas between

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the Rocky Mountains and the Sierra Nevada are incredibly diverse and valuable habitats. More than 80 percent of the ...

Wetland and Riparian Areas of the Intermountain West

Current regulations and reservoir management practices impede efforts to deal with sediment accumulation behind U.S. dams. New approaches are needed to improve reservoir sustainability. By Desirée ...

Sediment mismanagement puts reservoirs and ecosystems at risk

The state's lakes and reservoirs are filling in with sediment, sometimes at alarming ... Biological Survey and team leader for the reservoir assessment initiative. Determining the water storage ...

Mapping gets to bottom of state's shrinking lakes

Carbonates are sedimentary rocks

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formed by layers of carbonate sediment laid down by marine ... with average recovery rates for all reservoir types of 35 per cent. Understanding early diagenesis, and ...

Carbonate reservoirs

Pafeng*, Josiane Grana, Dario and Mallick, Subhashis 2014. Joint rock physics inversion of elastic and electric attributes for rock and fluid properties – A real data example. p. 2616.

Seismic Reflections of Rock Properties

Bedload sediment samples were collected using a handmade bedload trap (mouth opening = 20 × 30 cm, mesh size = 250 μm, catch bag length = 1 m), positioned at the upstream end ...

Effects of sediment replenishment on riverbed environments and macroinvertebrate assemblages downstream of a dam

ARS scientists publish results of their

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research projects in many formats. Listed below are the publications from research projects conducted at this location. Clicking on a publication title will ...

Publications at this Location

Assessment of sediment yield in Thailand using revised universal soil loss equation and geographic ...
development of a method to select the appropriate reservoir operation for Chao Phraya River, ...

Research Results

Durability of sorption of per- and polyfluorinated alkyl substances in soils immobilized using common adsorbents:
2. Effects of repeated leaching, temperature extremes, ionic strength and ...

The Science of the total environment

But the rate at which the sediment pile grows is an exhaustively studied and

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"mind-boggling" fact. About 5 million tons of sediment flows into the reservoir behind the dam each year. That's enough ...

Louisiana coastal restoration curbed by too little sediment; upriver states have too much

In particular, dynamics of fine sediment and particle associated nutrients and contaminants on varying temporal and spatial scales, and management effects on fluvial systems. Dr. Skalak received her ...

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