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**CHALLENGES AND SOLUTIONS - STORM WATER PERMIT IMPLEMENTATION AT LOS ALAMOS
NATIONAL LABORATORY**

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ABSTRACT: Implementing a stormwater permit with numerous time and sequence driven requirements for more than 400 sites spread over 37 square miles is an enormous task involving technical and management challenges. At each site, the permit requires monitoring of all storm water discharges and installation of baseline storm water controls with routine and annual inspection and maintenance. Further measures must be taken if storm water monitoring results show exceedances of water quality targets. Severe topography and complex hydrology in north-central New Mexico provide additional complexity.

Storm water managers at Los Alamos National Laboratory (LANL) are bringing together staff expertise and technology to meet the stormwater management challenges of an NPDES Individual Storm Water Permit. Brown and Caldwell is working with LANL to implement storm water controls that divert run-on around sites, eliminate exposure of potential pollutants, and capture and treat runoff. A consistent approach is used for developing, evaluating, and selecting alternatives for storm water control measures. In addition to site specific storm water controls, LANL has implemented watershed-based stormwater control measures including sediment basins and grade control structures.

Solutions are also needed to manage the large volume of information generated to meet reporting, documentation and tracking requirements. Brown and Caldwell is developing a web-based storm water management program provides LANL staff with the documented processes and tools for carrying out permit requirements, strategic organization of relevant information to staff and managers, a central location for permit requirements and associated guidance documents, checklists, tools, and other documentation. Managers can use the tool to track, log and manage decisions and actions.

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