



# USDOE SUPPLEMENTAL ENVIRONMENTAL PROJECTS

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# Background

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- WIPP and LANL Compliance Orders (December 6, 2014)
- Settlement Agreement (January 22, 2016)
  - Requires the implementation of Supplemental Environmental Projects (SEPs).
  - DOE will spend \$74 million on selected projects under these SEPs.



# Brief Overview – LANL-related SEPs

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- Roads - \$12 million
  - DOE Owned Transportation Routes
- Triennial Reviews - \$2.5 million
- Engineering Structures - \$7.5 million
- Increased Sampling/Monitoring - \$2.5 million
- Replace Aging Potable Water Lines - \$10 million



# Process Overview

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- Project Teams were developed for each SEP
  - Team Leads: Courtney Perkins, DOE OB (WE SEP), Sarah Holcomb, SWQB (SWM SEP)
  - NMED HWB, NMED SWQB, NMED DOE-OB, USDOE, LANS, Los Alamos County, San Ildefonso Pueblo
- 10 project team meetings between March-July 2016
- ID'ed specific objectives for each SEP



# Watershed Enhancement

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- \$7.5 million to design and install engineering structures in canyons in and around LANL to slow storm water flow and decrease sediment load to improve water quality in the area, allowing surface water management at a watershed scale.







# WE SEP Objectives

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- Slow storm water flow
- Decrease sediment load
- Above and beyond current regulatory requirements
- Qualitative approach to decisions
  - Group A Criteria – decided whether projects were feasible
  - Group B Criteria – assisted with ranking projects



# WE SEP

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- Potential for flow/pollutant loading were evaluated across canyons to narrow project locations
- Specific areas were targeted and scoped, and a list of projects has been prioritized and selected
- A certain number are on the docket for completion, and there are a number of back up projects
  - If funding/estimates change during the evaluation/construction period, projects will be added as money allows.





# Stormwater Monitoring SEP

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- SEP requires DOE to “increase sampling and monitoring capabilities for storm water runoff in and around the Laboratory, with the results of sampling and monitoring to be shared with the public and NMED.”



# SWM SEP Objectives

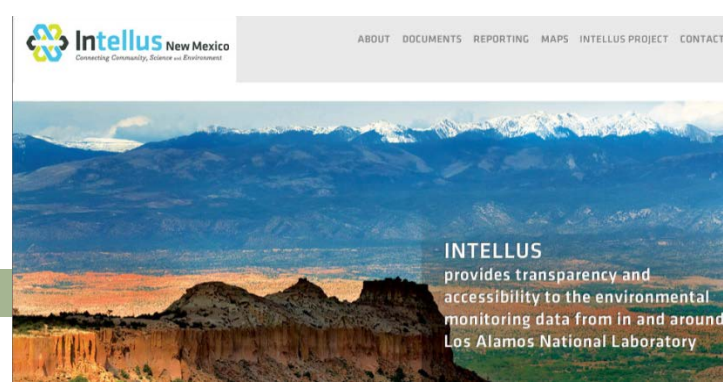
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- Sharing all data collected with the public
- Improving the way data is viewed through IntellusNM
- Reporting data and project activities in a final project report to NMED
- Sharing skills, knowledge and technology for storm water sampling
- Address data gaps in storm water quality and discharge, and other related environmental media
- Survey aquatic life communities in and around LANL



# IntellusNM

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- [www.IntellusNM.com](http://www.IntellusNM.com)
- Warehouses vast amounts of LANL environmental data
- Organizational structure, naming conventions, cross referencing locations, etc., has not been kept up to date over the past 10 years
- Targeting data organization and cleanup to improve access to data.



# Technology Transfer



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- Share skills, knowledge and technology with Accord Pueblos and local municipalities
  - Accord Pueblos will receive training (classroom and hands-on) on elements of stormwater monitoring, sampling and data analysis, as well as equipment.
  - Local municipalities (City of Santa Fe, Santa Fe County and NMDOT) will receive training on sample collection and data analysis.



# Sampling and Monitoring

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- Fill data gaps!
- Reference Watersheds – atmospheric deposition, sediment, stormwater
- LANL Developed Areas – sediment and stormwater
- LANL Firing Sites – sediment and stormwater
- Aquatic Life Community Surveys
- Contingency Plan



# Moving Forward

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- NMED must approve the work plans/Addendums for each SEP.
- Construction under the WE SEP should begin soon.
- LANL/NMED will work to complete Data Quality Objectives and LANL will then place samplers to obtain two full years of monitoring data.
- Oversight Team quarterly progress meetings
- All SEPs must be complete by December 31, 2018
- DOE must certify completion of the SEPs and NMED must approve.





# Questions?

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