



## EM-LA FY17 CLEANUP ACTIVITIES FOR NNM CAB PRIORITIZATION

Project Name	Project Overview	FY 17 Work Scope		
		Description	Outcome	Other
<b>Initial Aggregate Area Soil Investigations (Phase I)</b>	<ul style="list-style-type: none"> <li>Consent Order requirement</li> <li>Phased investigations to assess nature and extent of contamination, focus remediation strategies, and prioritize highest-risk sites for remediation activities</li> <li>Investigative work must be done prior to executing cleanup</li> </ul>	<ul style="list-style-type: none"> <li>Complete initial Phase I investigations at remaining aggregate areas (about 10) on and adjacent to LANL property</li> <li>Investigation activities include soil sampling and analysis to evaluate data against established risk/exposure criteria to support categorization and prioritization of work scope.</li> </ul>	<ul style="list-style-type: none"> <li>Data will support Certificates of Completion (CoCs) on some sites, others will move to Phase II investigations and a few may move to remediation/cleanup</li> <li>Progressive refinement of future work activities</li> </ul>	<ul style="list-style-type: none"> <li>Addresses human health risk, environmental liability</li> <li>Regulatory requirement</li> <li>On-going activity until Consent Order is completed</li> <li>Process is streamlined to conduct investigations in a single phase to expedite completion</li> <li>Previous aggregate area investigations focused on industrial areas/activities were completed- the remaining investigations are the "unknown unknowns"</li> </ul>
<b>Aggregate Area Supplemental Investigation Reports (Phase II)</b>	<ul style="list-style-type: none"> <li>Consent Order and Framework Agreement requirement</li> <li>Review previously completed Phase I investigations to assess completeness under revised process               <ul style="list-style-type: none"> <li>Process for defining extent of contamination was revised by U.S. EPA to complete site characterization more efficiently</li> </ul> </li> <li>Investigative work (Phase II) must be done prior to executing cleanup actions</li> </ul>	<ul style="list-style-type: none"> <li>Re-evaluate remaining 11 existing investigation reports to evaluate the nature and extent of contamination and recommend additional soil sampling and/or remediation or certificates of completion.               <ul style="list-style-type: none"> <li>Administrative activity with high rate of CoCs completed</li> </ul> </li> <li>Work completion of aggregate areas not done in FY2015 and 2016.</li> </ul>	<ul style="list-style-type: none"> <li>Recommendations for sampling/investigation or closure</li> <li>Could result in approximately 200 CoCs, reducing future remediation work scope</li> </ul>	<ul style="list-style-type: none"> <li>Addresses human health risk, environmental liability</li> <li>Regulatory requirement</li> <li>EM measures progress of cleanup using the number of CoCs issued.</li> <li>Revised process consistent with U.S. EPA guidance</li> <li>On-going activity until Consent Order is completed</li> </ul>
<b>Aggregate Area Prioritized Soil Cleanups</b>	<ul style="list-style-type: none"> <li>Consent Order requirement</li> <li>Many of the sites are managed under the National Pollutant Discharge Elimination System (NPDES) Individual Permit for Storm Water (IP)</li> </ul>	<ul style="list-style-type: none"> <li>Complete soil cleanup at 19 sites contaminated by legacy septic tanks, waste lines and surface disposal</li> <li>Clean up activities identified by Phase I and Phase II investigations, focus work scope to address highest priority remediation actions</li> <li>Continuation of FY2015/2016 activities.</li> </ul>	<ul style="list-style-type: none"> <li>Completion of cleanup activities for sites</li> <li>Supports closure of activities managed under the IP</li> </ul>	<ul style="list-style-type: none"> <li>Addresses human health risk, environmental liability, storm water quality</li> <li>Regulatory requirement</li> <li>On-going activity until Consent Order is completed</li> <li>Field cleanup activities, but does not include administrative tasks to develop reports and submit CoCs</li> </ul>
<b>TA-21 Building 257 Decontamination and Stability Operations</b>	<ul style="list-style-type: none"> <li>Consent Order and Land Conveyance and Transfer requirement</li> <li>On-going characterization and deactivation activities at TA-21</li> <li>Corrective Maintenance and Surveillance to stabilize existing structures completed</li> </ul>	<ul style="list-style-type: none"> <li>Clean out of structure, characterization and disposal of waste</li> <li>On-going operations and maintenance to maintain facility stability</li> </ul>	<ul style="list-style-type: none"> <li>Supports completion of remediation activities at TA-21</li> </ul>	<ul style="list-style-type: none"> <li>Addresses human health risk, environmental liability, reduction of LANL footprint</li> <li>Regulatory requirement</li> <li>Past NNM CAB recommendation related to public outreach activities for TA-21 demolition (#2009-06)</li> </ul>
<b>MDA I Soil Vapor Extraction (SVE)</b>	<ul style="list-style-type: none"> <li>Consent Order requirement</li> <li>On-going interim measure evaluation project to address subsurface volatile organic compounds (VOCs) contamination</li> <li>SVE activities are intended to prevent the plume from migrating downward towards groundwater</li> </ul>	<ul style="list-style-type: none"> <li>Year 3 of on-going SVE activities, including extraction, monitoring and reporting</li> </ul>	<ul style="list-style-type: none"> <li>Continue operating SVE units, evaluate data and report to NMED</li> <li>Possible implementation of a longer-term passive system</li> </ul>	<ul style="list-style-type: none"> <li>Addresses human health risk, environmental liability</li> <li>Regulatory requirement</li> <li>Past NNM CAB recommendation (#2010-05)</li> </ul>
<b>Upper Los Alamos Canyon Cleanup</b>	<ul style="list-style-type: none"> <li>Consent Order requirement</li> <li>Remediation of slopes on upper Los Alamos Canyon, total of 119 sites, completed</li> </ul>	<ul style="list-style-type: none"> <li>Complete data analysis and submit reports to NMED to close remediation of last 13 sites</li> </ul>	<ul style="list-style-type: none"> <li>Request CoCs on applicable sites</li> <li>Sites owned by individuals, Los Alamos County and DOE</li> </ul>	<ul style="list-style-type: none"> <li>Addresses human health risk, environmental liability, storm water quality</li> <li>Gain favor with private land owners and Los Alamos County for completing remediation activities on their properties</li> <li>Regulatory requirement</li> </ul>