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Date: January 24, 2012  
Refer To: ENV-RCRA-12-0024  
LAUR: 12-00214

Mr. John E. Kieling  
Acting Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

Dear Mr. Kieling:

**SUBJECT: LOS ALAMOS NATIONAL LABORATORY RESPONSE TO HWB-LANL-11-MISC – REVIEW OF DEMOLITION NOTIFICATION FOR FISCAL YEAR 2012**

The purpose of this letter is to respond to comments received from the New Mexico Environment Hazardous Waste Bureau (NMED-HWB) in the letter titled "*Review of the Response to Comments Demolition Notification for Fiscal Year 2012 Los Alamos National Laboratory, EPA ID #NM0890010515 HWB-LANL-11-MISC,*" dated December 16, 2011. The comments address the on-going review of the LANL notification for buildings or fixed structures scheduled to be demolished during fiscal year 2012, originally submitted to the NMED-HWB on September 14, 2011.

**NMED comment:**

*1. The Permittees provided the replacement table based on NMED's comment. However, the replacement table is incomplete: it does not include the first three pages of the original table provided with September 13, 2011 notification. The Permittees must provide the complete table.*

**LANL response:**

The complete table is provided as Enclosure 1 to this letter (LA-UR-12-00214).

**NMED comment:**

*4. The Permittees state that the 30-day advance notice of demolition was provided for several structures by a letter dated October 6, 2011. Review of the October 6, 2011 letter indicates that the following buildings were not included in the list:*

- *18-0028, Steel braced Frame*
- *18-0030, Concrete Sheer Walls*
- *18-0031, Concrete Sheer Walls*
- *18-0188, Premanufactured Metal Tower*
- *18-0189, Cast Concrete*

- 18-0190, Reinforced Masonry Structure

**LANL response:**

The reference reported by LANL was incorrect. The notifications to NMED for the five buildings below were made as indicated in the table below, not October 6, 2011 as stated in our letter. These previous notifications contained all the required information. This was an oversight and the corrected information for the buildings noted in the NMED-HWB's letter is outlined below:

<b>Technical Area and Building</b>	<b>Description</b>	<b>Date(s) of previous notification(s) to NMED-HWB</b>
18-0028	Steel Braced Frame	September 22, 2008 (FY 2009) March 29, 2011 (2nd Qtr 2011) September 14, 2011 (4th Qtr 2011) September 13, 2011 (FY 2012)
18-0030	Concrete Sheer Walls	September 14, 2011 (4th Qtr 2011)
18-0031	Concrete Sheer Walls	September 22, 2008 (FY 2009) March 29, 2011 (2nd Qtr 2011) September 14, 2011 (4th Qtr 2011) September 13, 2011 (FY 2012)
18-0188	Premanufactured Metal Tower	September 22, 2008 (FY 2009) July 18, 2011 (3 <sup>rd</sup> Qtr 2011) December 12, 2011 (1st Qtr 2012)
18-0189	Cast Concrete	September 22, 2008 (FY 2009) March 29, 2011 (2nd Qtr 2011) September 14, 2011 (4th Qtr 2011) September 13, 2011 (FY 2012)

**NMED comment:**

*In addition, the information on type of structure, current and historic use, solid waste management units and areas of concern located within 50 ft of the structure, etc., for the following structures was not included in the September 22, 2009 letter:*

- 18-0127, Steel Frame with Concrete Sheer Walls
- 18-0270, Steel Moment Frame

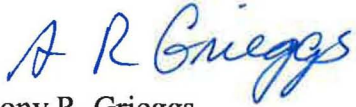
*The Permittees must either provide a correct reference to the notification dates for these structures or resubmit the relevant information for these structures scheduled for demolition.*

**LANL response:**

The reference reported by LANL was incorrect. The notification to NMED for buildings 18-0127 and 18-0270 was made on September 22, 2008, not September 22, 2009 as stated in our letter. The September 22, 2008 notification contained all the required information.

If you have questions or comments concerning this submittal, please contact Mark Haagenstad (LANS, LLC) at (505) 665-2014.

Sincerely,



Anthony R. Grieggs  
Group Leader  
Water Quality & RCRA Group (ENV-RCRA)

ARG:CJ:MH/lm

Enclosure: a/s

Cy: Laurie King, USEPA/Region 6, Dallas TX, w/enc.  
George Rael, LASO-EO, w/enc., A906, (E-File)  
Pete Maggione, LASO-EO, w/o enc., A316  
Gene Turner, LASO-EO, w/enc., A316, (E-File)  
Carl A. Beard, PADOPS, w/o enc., A102  
Michael T. Brandt, ADESH, w/o enc., K491  
Alison Dorries, ENV-DO, w/o enc., K491  
Scotty Jones, ENV-DO, w/o enc., K491  
Mark Haagenstad, ENV-RCRA, w/ enc., K404, (E-File)  
Catherine Juarez, ENV-RCRA, w/enc., K404, (E-File)  
Patricia Gallagher, ENV-ES, w/enc., J978, (E-File)  
Jim Jones, SP-DO, w/enc., J590, (E-File)  
Ken Schlindwein, PADOPS, w/enc., M895, (E-File)  
Janet Harry, IP-SDFD, w/enc., M895, (E-File)  
Darrik Stafford, PF-DO, w/ enc., D471 (E-file)  
Ian Albright, MNGRFCT-DO, w/enc., J590, (E-File)  
Taylor Valdez, ENV-DO, w/enc., K404, (E-File)  
Linda Salazar, ADESH, w/enc., K491, (E-File)  
ENV-RCRA File, w/ enc., M704  
IRM-RMMSO (U1102511), w/ enc., A150

LA-UR-12-00214

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*Title:* LOS ALAMOS NATIONAL LABORATORY RESPONSE TO  
HWB-LANL-11-MISC – REVIEW OF DEMOLITION  
NOTIFICATION FOR FISCAL YEAR 2012

*Author(s):* Catherine Juarez

*Intended for:* New Mexico Environment Department- Hazardous Waste  
Bureau



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Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
03-0058	Cooling tower	Cooling tower	1951-1985	Consolidated Unit <b>03-012(b)-00</b> consists of soil contamination from operational releases [ <b>SWMU 03-012(b)</b> ], a holding tank [ <b>SWMU 03-014(q)</b> ], and two permitted outfalls [ <b>SWMUs 03-045(b)</b> and <b>03-045(c)</b> ]. The SWMUs within this consolidated unit are associated with the TA-03 power plant (building 03-22) operations. SWMU 03-012(b) is soil contamination from operational releases, including cooling tower drift; SWMU 03-014(q) is a cooling-water holding tank; and SWMUs 03-045(b) and 03-045(c) are permitted outfalls that discharge into a small tributary of Sandia Canyon directly south of the steam power. The investigation for these is ongoing. Figures depicting these SWMUs and the sources of the information above, can be found in <i>Investigation Report for Upper Sandia Canyon Aggregate Area, Revision 1</i> (LA-UR-10-6410), which was submitted to NMED-HWB in October 2010 by letter.	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
03-0285	Cooling tower	Cooling tower	1951-1985	Consolidated Unit <b>03-012(b)-00</b> consists of soil contamination from operational releases [ <b>SWMU 03-012(b)</b> ], a holding tank [ <b>SWMU 03-014(q)</b> ], and two permitted outfalls [ <b>SWMUs 03-045(b)</b> and <b>03-045(c)</b> ]. The SWMUs within this consolidated unit are associated with the TA-03 power plant (building 03-22) operations. SWMU 03-012(b) is soil contamination from operational releases, including cooling tower drift; SWMU 03-014(q) is a cooling-water holding tank; and SWMUs 03-045(b) and 03-045(c) are permitted outfalls that discharge into a small tributary of Sandia Canyon directly south of the steam power. The investigation for these is ongoing. Figures depicting these SWMUs and the sources of the information above, can be found in <i>Investigation Report for Upper Sandia Canyon Aggregate Area, Revision 1</i> (LA-UR-10-6410), which was submitted to NMED-HWB in October 2010 by letter.	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
09-0272	Transportable-Wood Lt. Frame	Offices	1988-2011	None	None	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
09-0273	Transportable-Wood Lt. Frame	Offices	1984-2010	None	None	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished

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15-0456	Transportable-Wood Lt. Frame	Offices	1984-2011	<p><b>SWMU 15-009(k)</b> is a septic tank (structure 15-423) located approximately 250 ft north of a radiographic support laboratory (Building 15-313). This septic tank has a capacity of 1000 gal. and is constructed of reinforced concrete. SWMU 15-009(k) received sanitary waste from Building 15-313 and is no longer active. <b>SWMU 15-014(a)</b> is a former NPDES-permitted outfall that is used for discharges from various drains in Building 15-183. This outfall became operational in 1961. Originally, waste discharged to this outfall included photographic waste. The drain associated with this outfall was replaced in 1987 with a new drain installed at the same location. The drainline to the outfall and the outfall discharge point were plugged in 1997 and the outfall was removed from the NPDES permit January 14, 1998. <b>SWMU 15-014(b)</b> consisted of two separate outfalls from drains in Building 15-183. Drains discharging to these outfalls included 13 floor drains, five sinks, and a water fountain. In 1992, the drains from the buildings were connected to the SWSC, and thus there is no longer flow into the outfalls. In the addition the area was disturbed during construction. Figures depicting these SWMUs and the sources of the information above, can be found in <i>Investigation Work Plan for Cañon de Valle Aggregate Area</i> (LA-UR-06-4960), that was submitted to the NMED-HWB in September 2006 by letter. Planned D&amp;D activities for building 15-0456 will not impact these SWMUs and the sites will be investigated during the Cañon de Valle Aggregate Area investigation.</p>	None	4th Quarter 2011	<p>This building was previously identified to be demolished in FY 2011 but has not yet been demolished</p>

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18-0028	Steel Braced Frame	Warehouse- Programmatic General Storage	1948-2007	<p><b>SWMU 18-003(g)</b> is an inactive septic system consisting of an inlet line, a septic tank (structure 18-43), a discharge line, and a drain field. The reinforced concrete septic tank is located approximately 25 ft southwest of building 18-1 and 10 ft northeast of building 18-147. Installed in 1944, the tank is 3 ft wide x 5 ft long x 5 ft deep and has an estimated capacity of 500 gal. Between 1944 and 1969, the septic system received sanitary and photochemical laboratory waste from building 18-1 and discharged to a drain field southeast of septic tank 18-43. In 1969, SWMU 18 003(g) was connected to the site sewer system that routed effluent to the sanitary sewage lagoons that were previously located east of TA-18. When the TA-46 SWSC plant came online in 1992, discharges to the lagoons ceased and the septic tank contents were routinely pumped and trucked to the SWSC plant. Most of building 18-1 was demolished in 1968, leaving only a high bay, which was used as an electronic assembly and storage area until decommissioning of the building in 2009. <b>SWMU 18-003(h)</b> is an inactive septic system consisting of an inlet line, a septic tank (structure 18-152), and a discharge line. The septic tank is located approximately 5 ft southeast of building 18-147. Installed in 1944, the steel tank measures 4.3 ft in diameter x 5 ft deep and has a capacity of 500 gal. Between 1967 and 1992, the septic system received sanitary waste from building 18 147 and discharged to the sanitary sewer system that routed effluent to the sanitary sewage lagoons east of TA-18. When the TA-46 SWSC plant came online in 1992, discharges to the lagoons ceased and the septic tank contents were routinely pumped and trucked to the SWSC plant. Building 18-147 was decommissioned in 2009. Figures depicting these SWMUs and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR-10-7635), that was submitted to the NMED-HWB in November 2010 by letter. Planned D&amp;D activities for building 18-0028 will not impact these SWMUs and the sites will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.</p>	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished

Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
18-0030	Concrete Shear Walls	Main Bldg-Office	1953-2009	<p><b>SWMU 18-001(c)</b> consists of a sump, equipped with two sump pumps and a drain, located in the basement of building 18-30. Building 18-30 is an administrative building that housed control systems for remote nuclear criticality research. The sump, which was placed into service in 1969, served primarily to collect groundwater from drains outside the basement walls; however, some sinks and floor drains from offices and machine shops within building 18-30 formerly drained to the sump. The drains were diverted to the TA-18 sanitary sewer line in the fall of 1992. By the summer of 1994, all of the drains associated with building 18-30 were diverted into the sanitary sewer line. Discharge from the sump was combined with other discharges from buildings 18-30 and 18-31 and was released through an outfall [SWMU 18-012(b)] south of building 18-30. The outfall is within approximately 20 ft of the main drainage channel in Pajarito Canyon. <b>SWMU 18-003(f)</b> is an inactive septic system that includes an inlet line, a septic tank (structure 18-41), a discharge line, and a drain field. The septic system received sanitary waste and photochemical laboratory waste from building 18-30 from 1951 to 1969. In 1969, building 18-30 was connected to the sanitary sewage lagoons and the septic tank was filled with sand. The septic tank, located 25 ft west of building 18-30, is constructed of reinforced concrete and has a 1000-gal. capacity. The tank drained west to the distribution box and drain field. The drain field is located beneath asphalt pavement and the grassy area west of building 18-30. Historical documents indicate that a manhole, a settling pit with associated drainlines, and an outfall may have been associated with SWMU 18-003(f), but they were not located during the 1993 RFI investigation. <b>SWMU 18-004(a)</b> consists of a 3-in.-diameter x approximately 50-ft-long stainless-steel industrial waste line located belowground on the west side of building 18-30. The waste line was connected to sinks that served the west side of building 18-30 and discharged into two associated stainless-steel tanks [SWMU 18-004(b)]. The waste line was designed to receive radioactively contaminated liquid waste from building 18-30 (LANL 1993, 015310, p. 5-13). The 1990 SWMU report states that the waste line received radioactively contaminated liquid waste from building 18-30. During interviews conducted for the RFI work plan, former personnel from building 18-30 indicated that sealed radioactive sources, detectors, and reactor-fuel elements were the only radioactive materials present in building 18-30, and no radioactive liquids were ever present. The interviews also indicated that while no radioactive waste entered the waste line, some chemical wastes (primarily acids and cleaning solvents) did. The waste line and associated tanks were in service from the 1950s to 1977 when they were decommissioned. At that time the inlet end of the waste line was capped and remains inactive. Because no information regarding the removal of the waste line was found, it is</p>	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished



Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
18-0030 (cont.)				<p>assumed that the line remains buried in place. <b>SWMU 18-004(b)</b> consists consists of an area of potential soil contamination associated with a subsurface concrete containment pit (structure 18-38) that measures 4 ft wide x 9 ft long x 8 ft high and is located at TA-18 on the west side of building 18-30. The pit contained two stainless-steel tanks designed to receive radioactively contaminated liquid waste from building 18-30 through an associated 3 in. stainless-steel industrial waste line [SWMU 18-004(a)]. The waste line was connected to sinks that served the west side of building 18-30. A 9-in.-diameter x 6-in.-high sump was built into the floor of the pit, possibly to catch any overflow from the tanks. Whenever the tanks became full, they were taken out for waste removal and cleaning and then returned to service. The 1990 SWMU Report states that the waste line received radioactively contaminated liquid waste from building 18-30. During interviews conducted for the RFI work plan, former personnel from building 18-30 indicated that sealed radioactive sources, detectors, and reactor-fuel elements were the only radioactive materials present in building 18-30, and no radioactive liquids were ever present. The interviews also indicated that while no radioactive waste entered the tanks, some chemical wastes (primarily acids and cleaning solvents) did. The tanks and associated waste line were in service from the 1950s to 1977 when they were decommissioned. The tanks were removed in 1977, the concrete bottom of the pit was left in place, the walls of the pit were razed, and the pit was backfilled to grade. Figures depicting these SWMUs and the sources of the information above, can be found in Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1 (LA-UR-10-7635), that was submitted to the NMED-HWB in November 2010 by letter.</p>			

Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
18-0031	Concrete Shear Walls	Utility Bldg- Other Service Buildings	1953-2011	<b>SWMU 18-001(c)</b> consists of a sump, equipped with two sump pumps and a drain, located at TA 18 in the basement of building 18-30. Building 18-30 is an administrative building that housed control systems for remote nuclear criticality research. The sump, which was placed into service in 1969, served primarily to collect groundwater from drains outside the basement walls; however, some sinks and floor drains from offices and machine shops within building 18-30 formerly drained to the sump. The drains were diverted to the TA-18 sanitary sewer line in the fall of 1992. By the summer of 1994, all of the drains associated with building 18-30 were diverted into the sanitary sewer line. No specific data are available on discharges to the sump. Discharge from the sump was combined with other discharges from buildings 18-30 and 18-31 and was released through an outfall [SWMU 18-012(b)] south of building 18-30. The outfall is within approximately 20 ft of the main drainage channel in Pajarito Canyon. Currently, the outfall only receives storm water from building 18-31. Figures depicting this SWMU and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR-10-7634), which was submitted to NMED-HWB on November 19, 2010 by letter. This site will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
18-0037	Reinforced Concrete Structure	Guard Station	1953-2009	<b>AOC 18-010(d)</b> is an outfall that receives discharge in the form of sheet flow from a storm drainage collection area that drains the paved area northeast of building 18-0037. The outfall discharges to a flat graveled and grassy area southeast of building 18-0037 and west of building 18-0258. The discharge point is approximately 100 ft north of the stream channel in Pajarito Canyon. The date this outfall became operational is unknown, but it is likely that the outfall has been operational from the time building 18-0037 was constructed in 1951. Figures depicting this AOC and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR 10-7634), which was submitted to NMED-HWB on November 19, 2010 by letter. This site will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.	Asbestos	1st Quarter 2012	
18-0127	Steel Frame with Concrete Shear Walls	Accelerator Building	1967-2010	None	Asbestos, RCRA metals, VOCs	1st Quarter 2012	
18-0129	Reinforced Concrete Structure	Reactor Sub-Assy Building	1962-2009	SWMU 18-003(e) is an inactive septic tank (structure 18-040) that served Bldg. 18-129 from 1962 to 1969. Drain lines to the septic system will be capped at the slab or capped at the excavation boundary; therefore, there should be no impacts to this SWMU.	Asbestos, VOC's, Lead	Not scheduled for demolition at this time	This building was previously identified to be demolished in FY 2011 but has not yet been demolished

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18-0141	Reinforced Masonry Structure	Ultra-Sonic Cleaning Building	1966-2009	<b>AOC 18-012(c)</b> consists of an inactive sump, drainlines, and outfall from Building 18-141, which housed ultrasonic cleaning operations. The ultrasonic cleaner used ethanol and benzene and was located in a pit below the floor of the building. A drainline from this pit leads to an outfall east of the building. Material spilled in the pit would have been discharged to this outfall, which is located adjacent to a drainage ditch approximately 80 ft east of Building 18-141. Figures that depict these AOC and the source for the information above, can be found in <i>Investigation Work Plan (IWP) for Lower Pajarito Canyon Aggregate Area, Revision 1 (LA-UR 10-7634)</i> , which was submitted to NMED-HWB on November 19, 2010.	Asbestos, VOC's, Lead, Beryllium	Not scheduled for demolition at this time	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
18-0147	CMU Office Building	Offices	1968-2007	None	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
18-0187	Premanufactured Metal Tower	Guard Station	1986-2010	<b>SWMU 18-012(a)</b> is an outfall at for a combined industrial drain and storm sewer drain for building 18-116 (Kiva 3). Drainlines discharging to this outfall are connected to building 18-116 roof drains, floor drains, and sinks. The outfall, found during 1992 field inspections using a dye-trace test, is located approximately 120 ft northeast of building 18-116 and approximately 150 ft from the stream channel in Pajarito Canyon. Building 18-116 was built in 1960 and used for uranium mockup tests for the Rover Program—a nuclear rocket propulsion program conducted from 1955 to 1972. The date this outfall became operational is unknown, but it is likely that the outfall was operational from the time building 18-116 was completed in 1960. Figures depicting this SWMU and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1 (LA-UR-10-7634)</i> , which was submitted to NMED-HWB on November 19, 2010. This site will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.	Lead	1st Quarter 2012	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
18-0188	Premanufactured Metal Tower	Guard Station	1984-2010	<b>SWMU 18-005(a)</b> consists of an area of potentially contaminated soil associated with a former magazine (structure 18-15) that was used from 1945 until it was demolished in 1977. The magazine was a small, round, dirt-bermed wooden structure constructed at grade and located west of building 18-297. The magazine originally stored HE for firing-site activities conducted at SWMU 18-002(a). Uranium and beryllium oxide were also stored in the magazine for nuclear criticality studies conducted from approximately 1946 to 1955. The former location of structure 18-15 is not currently visible, and the berm surrounding the former location of the magazine is no longer present. Figures depicting this SWMU and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1 (LA-UR 10-7634)</i> , which was submitted to NMED-HWB on November 19, 2010. This site will not be impacted during D&D and will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.	Lead	1st Quarter 2012	

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18-0189	Cast Concrete	Communications/ Control Center	1986-2007	<p><b>SWMU 18-003(g)</b> is an inactive septic system consisting of an inlet line, a septic tank (structure 18-43), a discharge line, and a drain field. The reinforced concrete septic tank is located approximately 25 ft southwest of building 18-1 and 10 ft northeast of building 18-147. Installed in 1944, the tank is 3 ft wide x 5 ft long x 5 ft deep and has an estimated capacity of 500 gal. Between 1944 and 1969, the septic system received sanitary and photochemical laboratory waste from building 18-1 and discharged to a drain field southeast of septic tank 18-43. In 1969, SWMU 18 003(g) was connected to the site sewer system that routed effluent to the sanitary sewage lagoons that were previously located east of TA-18. When the TA-46 SWSC plant came online in 1992, discharges to the lagoons ceased and the septic tank contents were routinely pumped and trucked to the SWSC plant. Most of building 18-1 was demolished in 1968, leaving only a high bay, which was used as an electronic assembly and storage area until decommissioning of the building in 2009. <b>SWMU 18-003(h)</b> is an inactive septic system consisting of an inlet line, a septic tank (structure 18-152), and a discharge line. The septic tank is located approximately 5 ft southeast of building 18-147. Installed in 1944, the steel tank measures 4.3 ft in diameter x 5 ft deep and has a capacity of 500 gal. Between 1967 and 1992, the septic system received sanitary waste from building 18-147 and discharged to the sanitary sewer system that routed effluent to the sanitary sewage lagoons east of TA-18. When the TA-46 SWSC plant came online in 1992, discharges to the lagoons ceased and the septic tank contents were routinely pumped and trucked to the SWSC plant. Building 18-147 was decommissioned in 2009 and the drainlines to the septic tank were plugged. Figures depicting these SWMUs and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR 10-7634), which was submitted to NMED-HWB on November 19, 2010. SWMUs 18-003(g &amp; h) will not be impacted during D&amp;D and will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.</p>	None	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished

Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
18-0190	Reinforced Masonry Structure	Guard Station	1986-2010	<p><b>SWMU 18-002(b)</b> is an inactive firing site in Threemile Canyon near the present location of building 18-32 (Kiva 2). The firing site was used from 1944 to 1945. The site consisted of a 2 ft-long x 2 ft-wide x 2-ft-deep firing chamber (former structure 18-4) constructed from 1-in.-thick steel and an aboveground armored bunker (structure 18-5), commonly called a "battleship," used to protect shot instrumentation. The top of the firing chamber was open and set flush with the ground west of structure 18-5. A ground-level wooden structure (former structure 18-6), located east of structure 18-5, was the battery building for the firing site cable conduit system. It contained racks of lead-acid batteries. Structure 18-4 was removed in 1945, structure 18-6 was dismantled in 1951, and structure 18-5 remains. Three additional firing points further up canyon are associated with SWMU 18-002(b). Firing Point C (now beneath building 18-0032) was 51 ft west of structure 18-0005 and on its midline. Firing Point G, located at the southeast corner of the current storage building 18-0122, was 145 ft west of structure 18-0005 on its midline. Firing Points C and G were used in firing operations involving smaller charges than the third firing point. The third firing point, Medium Firing Point, was built to handle HE charges of up to 2 tons. It was located 478 ft west of structure 18-0005 and 15 ft south of its midline. <b>AOC C-00-012</b> consists of the Threemile Canyon system. Figures depicting this SWMU and AOC and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR-10-7634), which was submitted to NMED-HWB on November 19, 2010. Both sites will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.</p>	TPH, PCBs	1st Quarter 2012	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
18-0227	Steel Frame with Concrete Shear walls	Lab	1990-2009	None	RCRA metals, VOCs, SVOCs, TPH, PCBs	1st Quarter 2012	

Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
18-0270	Steel Moment Frame	Guard Station	1990-2011	<b>SWMU 18-003(e)</b> is an inactive septic system that includes two inlet lines, a cylindrical septic tank (structure 18-40), an outlet line, a drain field, and a former outfall. The septic tank is located approximately 50 ft southwest of building 18-37 and approximately 50 ft east of building 18-29 (a log cabin). The tank is constructed of reinforced concrete and measures 6 ft in diameter x 6 ft deep. The septic system received sanitary waste from building 18-31 (a utility building), building 18-37 (Guard Station 205), building 18-129 (a reactor subassembly building), building 18 189, and building 18 190. While in operation from 1951 to 1969, the septic system may have also received industrial waste from a sink in building 18-28 (a warehouse). Septic tanks associated with SWMUs 18-003(g, h) (structure 18-43 and structure 18-152, respectively) may have discharged to this septic system. Effluent discharged into a drain field that has four drainlines, each of which is approximately 40 ft long. The drainlines, which are 10 ft apart from each other, merge at the distal end of the drain field and continue an estimated 100 ft to the former outfall. In 1969, sanitary waste from the buildings was connected to the site sewer system that routed effluent to the sanitary sewage lagoons. At that time, the septic tank was backfilled with sand. Figures depicting this SWMU and the sources of the information above, can be found in <i>Investigation Work Plan for Lower Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR 10-7634), which was submitted to NMED-HWB on November 19, 2010. This SWMU will not be impacted by planned D&D activities and will be investigated during the Lower Pajarito Canyon Aggregate Area investigation.	Lead	1st Quarter 2012	
18-0297	Other	Warehouse	1997-2009	None	None	1st Quarter 2012	
22-0001 (partial)	Metal and wood framed	Shower Rooms	1948-1984	<b>SWMU 22-012</b> is a concrete pad that was used for washing explosive-contaminated equipment with water. <b>SWMU 22-015(e)</b> is an inactive explosives sump that collected water through interconnected drainlines from a wash pad and sink drain in Room 108 of Building 22-0001. The sump was filled with concrete in 1984 after the building was no longer in use. Figures depicting these SWMUs and the sources of the information above can be found in <i>Investigation Work Plan for Starmer/Upper Pajarito Canyon Aggregate Area, Revision 1</i> (LA-UR-11-1821), that was submitted to the NMED-HWB by letter in March 2011. This SWMU will not be impacted by planned D&D activities at building 22-0001 and will be investigated during the Starmer/Upper Pajarito Canyon Aggregate Area investigation.	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
35-0224	Trailer-Wood Lt. Frame	Offices	1969-2008	<b>SWMU 35-014(a)</b> is an area of potential soil contamination associated with stack emissions from a former air filter building (former Building 35-7). This site was investigated and addressed during the Middle Mortandad Investigation. Figures depicting the SWMU and the sources of the information above can be found in <i>Investigation Report for the Middle Mortandad/Ten Site Aggregate, Revision 1</i> (LA-UR-07-4716) that was submitted to the NMED-HWB by letter in July 2007. NMED issued a Certificate of Completion Without Controls for SWMU 35-014(a) on June 30, 2011.	Asbestos, Tritium	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished

Technical Area (TA) and Building Number	Type of Structure	Current and Historic Uses	Approximate dates of Operation	Solid Waste Management Units (SWMUs)/Areas of Concern (AOCs) within 50 ft of Footprint	Category	Date/Quarter Demolition Expected to Begin (Based Upon Calendar Year Quarters)	Buildings or Fixed Structures Identified in Previous Fiscal Year that were not Demolished
35-0226	Trailer-Wood Lt. Frame	Offices	1963-2008	<b>SWMU 35-014(a)</b> is an area of potential soil contamination associated with stack emissions from a former air filter building (former Building 35-7). This site was investigated and addressed as part of the Middle Mortandad Investigation. Figures depicting the SWMU and the sources of the information above can be found in <i>Investigation Report for the Middle Mortandad/Ten Site Aggregate, Revision 1</i> (LA-UR-07-4716) that was submitted to the NMED-HWB by letter in July 2007. NMED issued a Certificate of Completion Without Controls for SWMU 35-014(a) on June 30, 2011.	Asbestos, Tritium	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
35-0227	Trailer-Wood Lt. Frame	Offices	1966-2008	<b>SWMU 35-014(a)</b> is an area of potential soil contamination associated with stack emissions from a former air filter building (former Building 35-7). This site was investigated and addressed during the Middle Mortandad Investigation. Figures depicting the SWMU and the sources of the information above can be found in <i>Investigation Report for the Middle Mortandad/Ten Site Aggregate, Revision 1</i> (LA-UR-07-4716) that was submitted to the NMED-HWB by letter in July 2007. NMED issued a Certificate of Completion Without Controls for SWMU 35-014(a) on June 30, 2011.	Asbestos, Tritium	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
46-0181	Trailer- Wood Lt. Frame	Offices	1979-2011	None	N/A	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
46-0421	Premanufactured Metal Enclosure	Radio Isolation Enclosure	1993-2011	None	N/A	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
46-0546	Trailer	Offices	1984-2010	None	Asbestos	4th Quarter 2011	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
48-0056	Transportable-Wood Lt. Frame	Offices	1987-2011	None	N/A	3rd Quarter 2012	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
48-0057	Modular	Offices	1987-2011	None	N/A	3rd Quarter 2012	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
48-0203	Trailer-Wood Lt. Frame	Offices	1995-2010	None	N/A	3rd Quarter 2012	This building was previously identified to be demolished in FY 2011 but has not yet been demolished
55-0007	Calcium Building-unreinforced masonry bearing walls	Production Related Laboratory	1975-2011	None	Asbestos	2nd Quarter 2012	
55-0009	Wood light frame	Guard Station	1975-2011	None	Asbestos	3rd Quarter 2012	
55-0022	Other Type Structure	Vehicle Monitoring Station	1975-2011	None	Asbestos	3rd Quarter 2012	



**COPY**

*Environmental Protection Division  
Water Quality & RCRA Group (ENV-RCRA)*  
P.O. Box 1663, Mail Stop M704  
Los Alamos, New Mexico 87545  
(505) 667-0666/FAX: (505) 667-5224

Date: January 24, 2012  
Refer To: ENV-RCRA-12-0024  
LAUR: 12-00214

Mr. John E. Kieling  
Acting Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303



Dear Mr. Kieling:

**SUBJECT: LOS ALAMOS NATIONAL LABORATORY RESPONSE TO HWB-LANL-11-MISC – REVIEW OF DEMOLITION NOTIFICATION FOR FISCAL YEAR 2012**

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee  <i>X [Signature]</i></p> <p>B. Received by (Printed Name) <input type="checkbox"/> Agent <input type="checkbox"/> Addressee  <i>[Signature]</i></p> <p>C. Date of Delivery  <i>1-24-12</i></p>
<p>1. Article Addressed to:</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Mr. John E. Kieling Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Drive East, Building 1 Santa Fe, NM 87505</p> </div>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No          If YES, enter delivery address below:</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number: <i>ENV-RCRA-12-0024</i>          (Transfer from service label) <i>Response to Review Demolition Notification</i></p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt FY 2012 102595-02-M-1540</p>	

Hazardous  
B-LANL-  
notification  
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September

structures  
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- 18-0028, Steel braced Frame
- 18-0030, Concrete Sheer Walls
- 18-0031, Concrete Sheer Walls
- 18-0188, Premanufactured Metal Tower
- 18-0189, Cast Concrete