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Date: SEP 0 3 2014
Refer To: EP2014-0420

Nicholas Schiavo, Water Division Director
Sangre de Cristo Water Division
City of Santa Fe
801 West San Mateo, P.O. Box 909
Santa Fe, New Mexico 87504

Subject: Los Alamos National Laboratory Sitewide Monitoring Program, City of Santa Fe Buckman Water Supply Wells, 2014–2015 Sampling and Analysis Plan

Dear Mr. Schiavo:

Los Alamos National Laboratory (the Laboratory) has sampled Buckman water supply wells since 2001. The attached sampling and analysis plan represents the Laboratory's commitment for the next four quarters of sampling beginning on June 9, 2014.

The Laboratory will implement the following practices associated with groundwater data collected from Buckman water-supply wells:

1. The Laboratory will provide an automated report of the data upon receipt from the analytical laboratory. Sixty days after the automated report is provided to the City of Santa Fe (hereafter, the City), the data will be posted to the publicly accessible website, Intellus (http://www.intellusnm.com/).

2. If a potential contaminant is detected in a Buckman production well, the Laboratory will work with the Water Division to evaluate the data and review the need to modify the sampling and analysis plan to address any questions raised by the potential contaminant.

Historically the Laboratory has provided the City a quarterly written report summarizing the results of the previous sampling event. The Laboratory has recently transitioned to an electronic reporting format for providing groundwater sampling results conducted for external utilities and entities. These reports are much more efficient and enable clearer and more comprehensive comparisons with applicable standards or other reference values. Accordingly, written reports will no longer be submitted.

In the past, the Laboratory has compared results from the Buckman well field with standards set forth in the Compliance Order on Consent with the New Mexico Environment Department. However, these standards are not necessarily applicable to the criteria the City uses under the Safe Drinking Water Act. Because the Laboratory's written reports to the City are publically accessible, the Laboratory believes it is in the best interest of the City and the public for the Laboratory's results

from the Buckman wells to be compared with the same standards used by the City. The Laboratory requests that the City provide with that set(s) of standards for use in future reports.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@nnsa.doe.gov).

Sincerely,

Jeff Mousseau, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

Peter Maggiore, Assistant Manager
Environmental Projects Office
Los Alamos Field Office

JM/PM/DM/SP/DR:sm

Attachment: City of Santa Fe Buckman Water Supply Wells, 2014–2015 Sampling and Analysis Plan (LA-UR-14-26464)

Cy: (w/att.)
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Danny Katzman, EP-CAP (date-stamped letter emailed)
Steve Paris, EP-CAP (date-stamped letter emailed)
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Dave McInroy, EP-CAP (date-stamped letter emailed)
Jeff Mousseau, ADEP (date-stamped letter emailed)

City of Santa Fe Buckman Water-Supply Wells
2014–2015 Sampling and Analysis Plan

Location	Analytical Suites											
	Metals (filtered, unfiltered)		Organics (unfiltered)				Radionuclides (unfiltered)		Inorganics (filtered, unfiltered)		
	Metals[a]	Chromium	VOCs	SVOCs	PCBs	HEXP	Radionuclides[b]	Low-Level Tritium	General[c]	Nitrate+nitrite	Perchlorate
Buckman No. 1	1, 3	—[d]	1, 3	1, 3	1, 3	1, 3	1, 3	1, 2, 3, 4	1, 3	—	1, 3
Buckman No. 6	1, 3	—	1, 3	1, 3	1, 3	1, 3	1, 3	1, 2, 3, 4	1, 3	—	1, 3
Buckman No. 8	1, 3	—	1, 3	1, 3	1, 3	1, 3	1, 3	1, 2, 3, 4	1, 3	—	1, 3
SF-3A	—	4	—	—	—	—	—	4	—	4	4
SF-4A	—	4	—	—	—	—	—	4	—	4	4

Notes:

Sampling schedule: 1 = Apr–June 2014; 2 = July–Sept 2014; 3 = Oct–Dec 2014; 4 = Jan–Mar 2015.

Samples collected for filtered analysis include metals, anions, cations, nitrate plus nitrite, ammonia, total phosphorus, specific conductance, pH, total dissolved solids (TDS), alkalinity, hardness, and perchlorate.

Samples collected for unfiltered analysis include mercury, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), high explosive compounds (HEXP), diesel range organics, radionuclides, tritium, total cyanide, total Kjeldahl nitrogen (TKN), and total organic carbon (TOC).

Quality Control samples will be collected according to Appendix D in the Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014.

[a] Metals analysis includes Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, SiO_2, Sn, Tl, V, U, and Zn.

[b] The radionuclide suite includes radium-226 and radium-228, americium-241, strontium-90, isotopic uranium, isotopic plutonium, gamma spectroscopy (for cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22), gross alpha, gross beta, and gross gamma.

[c] General inorganic analysis includes major anions (bromide, chloride, fluoride, sulfate); major cations (calcium, magnesium, sodium, potassium); nitrate plus nitrite (as N); TKN; ammonia; total phosphorus; total cyanide; TOC; TDS; alkalinity; specific conductance; pH; and hardness. TKN, TOC, and total cyanide are analyzed only in unfiltered samples.

[d] — = This analytical suite is not scheduled to be collected for this location.