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(505) 257-7690

Environmental Management
Los Alamos Field Office
1200 Trinity Drive, Suite 400
Los Alamos, New Mexico 87544
(240) 562-1122

Date: April 15, 2026
Refer To: N3B-2026-0019

Jesse Roach, Water Division Director
Sangre de Cristo Water Division
City of Santa Fe
801 West San Mateo
Santa Fe, New Mexico 87505

Subject: Los Alamos National Laboratory Site-Wide Monitoring Program, City of Santa Fe Buckman Water Supply Wells, 2026 Sampling and Analysis Plan

Dear Mr. Roach:

The City of Santa Fe Buckman water supply wells have been sampled since 2001 for both general characterization and specific constituents of interest under Los Alamos National Laboratory's (LANL's) Site-Wide Monitoring Program. These wells include Buckman 1, Buckman 6, and Buckman 8.

The U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) continue to coordinate with the City of Santa Fe to conduct an annual review of the sampling and analysis plan (SAP).

The enclosed 2026 SAP is for the period from January 1, 2026 to December 31, 2026. The sampling suites and methods in this SAP are the same as those applied to groundwater monitoring wells sampled under the New Mexico Environment Department–approved Interim Facility-Wide Groundwater Monitoring Plan.

N3B will continue to implement the following practices associated with groundwater data collected from Buckman water supply wells.

1. N3B 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, the data will be posted to the publicly accessible website Intellus (http://www.intellusnm.com).
2. If a potential contaminant is detected above a standard, N3B will (1) work with the City of Santa Fe Sangre de Cristo Water Division to evaluate the data and (2) modify the SAP and/or collect additional samples to address questions raised by the potential contaminant.

If you have any questions, please contact Christian Maupin at (505) 695-4281 (christian.maupin@em-la.doe.gov) or Brian Harcek at (505) 692-4261 (brian.harcek@em.doe.gov).

Sincerely,

Robert Edwards III
Program Manager
Environment, Safety, Health and Quality
N3B-Los Alamos

Sincerely,

Digitally signed by BRIAN HARCEK
Date: 2026.04.14 13:33:57 -06'00'

Brian Harcek, Director
Office of Quality and Regulatory Compliance
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s): Two hard copies with electronic files

1. Los Alamos National Laboratory Site-Wide Monitoring Program, City of Santa Fe Buckman Water Supply Wells, 2026 Sampling and Analysis Plan (EM2026-0036)

cc (letter and enclosure[s] emailed):
Laurie King, EPA Region 6, Dallas, TX
Aaron Rand, City of Santa Fe, Santa Fe, NM
William Schneider, City of Santa Fe, Santa Fe, NM
Steve Yanicak, NMED-DOE-OB
Joseph Martinez, NMED-DWB
Justin Ball, NMED-GWQB
Caitlyn Martinez, NMED-GWQB
Neelam Dhawan, NMED-HWB
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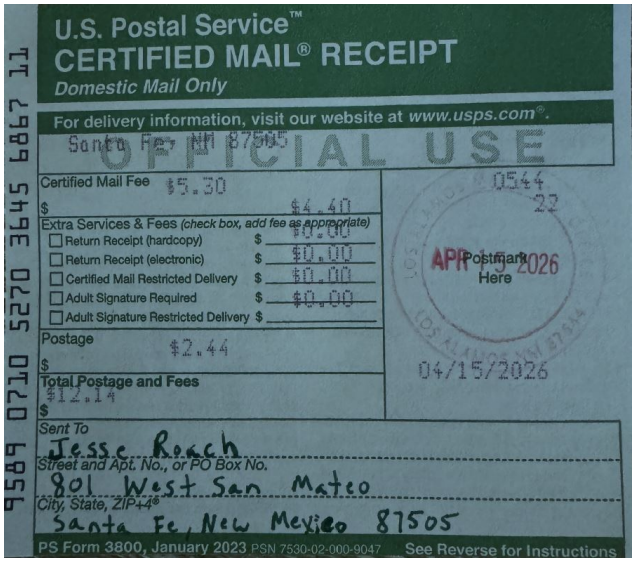
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Los Alamos National Laboratory Site-Wide Monitoring Program,
City of Santa Fe Buckman Water Supply Wells, 2026 Sampling and Analysis Plan

Table 1
Sampling and Analysis Plan for the
City of Santa Fe Buckman Water Supply Wells
for the Period of January 1 2026, to December 31, 2026

Location	Analytical Suites[a]				
	Metals	Organics	Radionuclides		Inorganics
	Metals	HEXP[b]	Radionuclides	Low-Level Tritium	General Inorganics
Buckman No. 1	Q1, Q3	Q3	Q1, Q3	Q1, Q3	Q1, Q3
Buckman No. 6	Q1, Q3	Q3	Q1, Q3	Q1, Q3	Q1, Q3
Buckman No. 8	Q1, Q3	Q3	Q1, Q3	Q1, Q3	Q1, Q3

Notes: Sampling schedule: Quarter 1 (Q1) = Jan–Mar 2026; Q2 = Apr–Jun 2026; Q3 = Jul–Sep 2026; Q4 = Oct–Dec 2026. Quality control samples will be collected in accordance with Appendix D of the Interim Facility-Wide Groundwater Monitoring Plan for the associated monitoring year. Figure 1 shows locations of the City of Santa Fe wells.

[a] Table 2 of this sampling and analysis plan presents the sample field preparation, analytical methods, and analytes for each of the analytical suites specified in Table 1.

[b] HEXP = High explosives.

Table 2
Analytes, Field Preparation, and Analytical Methods Used by
U.S. Environmental Protection Agency Contract Laboratory
Program Laboratories for Samples Collected Under the Sampling
and Analysis Plan for the City of Santa Fe Buckman Water Supply Wells

Analytical Suite	Field Preparation	Analytical Method	Analytes
Metals	Unfiltered	SW-846:7470 series	Mercury
		SW-846:6020 series	Aluminum, selenium
	Filtered	SM:A2340	Hardness
		SW-846:6010 series	Barium, boron, calcium, iron, magnesium, manganese, potassium, silicon dioxide, sodium, strontium, vanadium, zinc
		SW-846:6020 series	Aluminum, antimony, arsenic, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, tin, uranium
		SW-846:7470 series	Mercury

Table 2 (continued)

Analytical Suite	Field Preparation	Analytical Method	Analytes
HEXP*	Unfiltered	SW-846:8330 series	See Table 3.
Radionuclides	Unfiltered	EPA:900	Gross alpha, gross beta
		EPA:901.1	Cesium-137, cobalt-60, neptunium-237, potassium-40, sodium-22
		EPA:905.0	Strontium-90
		HASL-300:AM-241	Americium-241
		HASL-300:ISOPU	Plutonium-238, plutonium-239/240
		HASL-300:ISOU	Uranium-234, uranium-235/236, uranium-238
		EPA:903.1	Radium-226
		EPA:904	Radium-228
		Generic: radium by calculation	Radium-226/228
Low-level tritium	Unfiltered	Generic: low-level tritium	Tritium
General inorganics	Filtered	EPA:120.1	Specific conductance
		EPA:150.1	Acidity or alkalinity of a solution
		EPA:160.1	Total dissolved solids
		SW-846:6850 series	Bromide, chloride, fluoride, sulfate
		EPA:310.1	Alkalinity-CO_3, alkalinity-CO_3+HCO_3
		SW-846:6850 series	Perchlorate
		EPA:350.1	Ammonia as nitrogen
		EPA:353.2	Nitrate-nitrite as nitrogen
		EPA:365.4	Total phosphate as phosphorus
	Unfiltered	EPA:351.2	Total Kjeldahl nitrogen
		SW-846:9060	Total organic carbon
		SW-846:9012 series	Cyanide (total)

* HEXP = High explosives.

Table 3
Analytical Methods Used by Contract Laboratories for
Samples Collected Under the Sampling and Analysis Plan
for the City of Santa Fe Buckman Water Supply Wells

Symbol or CAS[b] No.	Analyte
Analytical Suite: HEXP[a] **Analytical Method: SW-846:8330B**	
6629-29-4	Diamino-6-nitrotoluene[2,4-]
59229-75-3	Diamino-4-nitrotoluene[2,6-]
618-87-1	Dinitroaniline[3,5-]
19406-51-0	Amino-2,6-dinitrotoluene[4-]
35572-78-2	Amino-4,6-dinitrotoluene[2-]
99-65-0	Dinitrobenzene[1,3-]
121-14-2	Dinitrotoluene[2,4-]
606-20-2	Dinitrotoluene[2,6-]
2691-41-0	HMX[c]
98-95-3	Nitrobenzene
88-72-2	Nitrotoluene[2-]
99-08-1	Nitrotoluene[3-]
99-99-0	Nitrotoluene[4-]
78-11-5	PETN[d]
121-82-4	RDX[e]
3058-38-6	TATB[f]
479-45-8	Tetryl
99-35-4	Trinitrobenzene[1,3,5-]
118-96-7	Trinitrotoluene[2,4,6-]
78-30-8	Tris (o-cresyl) phosphate

Note: Table 3 is referenced in Table 2 and serves to complete the analyte lists in Table 2.

[a] HEXP = High explosives.

[b] CAS = Chemical Abstracts Service.

[c] HMX = Her Majesty's Explosive (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine).

[d] PETN = Pentaerythritol tetranitrate.

[e] RDX = Royal Demolition Explosive (hexahydro-1,3,5-trinitro-1,3,5-triazine).

[f] TATB = Triaminotrinitrobenzene.

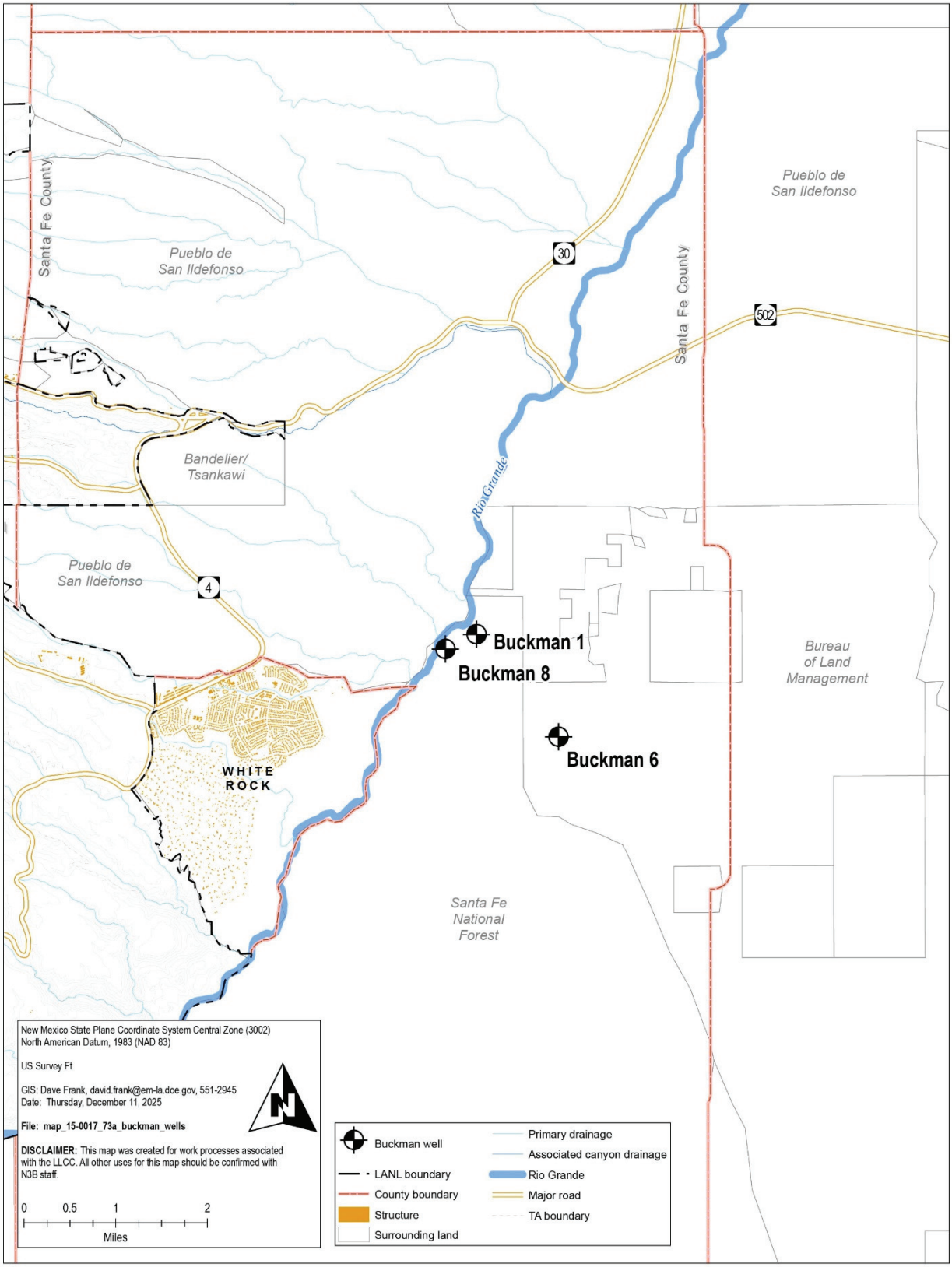

Figure 1 City of Santa Fe Buckman water supply wells