ERID-242871

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	0289
DESTINATION TEL #	89554280
DESTINATION ID	
ST. TIME	06/07 09:24
TIME USE	00'57
PAGES SENT	5
RESULT	OK

confirmed receipt of fax
6/7/2013 Saundra

Los Alamos National Laboratory
Environmental Programs
Area Fax: (505) 667-5801

Deliverables Compliance Team

FAX

TO:	BRIAN SNYDER, CITY OF SFE	FR:	SAUNDRA MARTINEZ
FAX #	(505) 955-4280	PH:	955-4201 OR 955-4233 (STEPHANI)
# PAGES:	(5) including this cover sheet	DATE:	June 7, 2013

RE: Los Alamos National Laboratory Sitewide Monitoring Program, City of Santa Fe Buckman Water-Supply Wells, 2013-2014 Sampling and Analysis Plan

Comments:

The original paper copy with the CD is in the mail.

Los Alamos
NATIONAL LABORATORY

Environmental Programs
P.O. Box 1663, MS M991
Los Alamos, New Mexico 87545
(505) 606-2337/FAX (505) 665-1812

National Nuclear Security Administration
Los Alamos Field Office, MS A316
Environmental Projects Office
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: JUN 07 2013
Refer To: EP2013-0082

Mr. Brian Snyder, Public Utilities and Water Division Director
Sangre de Cristo Water Division
City of Santa Fe
801 West San Mateo
Santa Fe, New Mexico 87504

Subject: Los Alamos National Laboratory Sitewide Monitoring Program, City of Santa Fe Buckman Water Supply Wells, 2013–2014 Sampling and Analysis Plan

Dear Mr. Snyder:

Los Alamos National Laboratory (the Laboratory) has participated in cooperative sampling of select Buckman drinking water-supply wells since 2001. This letter and the attached one-age sampling and analysis plan represents the Laboratory's commitment for the next four quarters of sampling beginning in April 2013. The attached plan was reviewed by the Laboratory and the City of Santa Fe Water Division staff (via Alex Puglisi) to ensure the locations, analytes, and frequencies meet our collective data needs. The sample suites and methods in this plan are the same as those used for sampling our monitoring wells under the New Mexico Environment Department–approved Interim Facility-wide Groundwater Monitoring Plan.

Based on a review of analytical results of groundwater samples collected from City wells, the Laboratory recommends the following changes:

- Filtered groundwater samples will be collected for metals analyses, with the exception of mercury.
- Eliminate the analysis of naturally occurring thorium isotopes, which have not been detected.
- Eliminate the analysis of neptunium-237, which also has not been detected.

In addition, the Laboratory would like to confirm its intent to follow the previously agreed upon practices listed below in reporting analytical results from the Buckman production wells:

1. The Laboratory will follow the historical practice waiting 120 days after sample collection before the Buckman production well data are released to the public or posted to the publicly accessible website, Intellus (http://www.intellusnm.com/).
2. If some indication of contamination is detected in a Buckman production well, the Laboratory will work with the Water Division to evaluate the data, collect additional samples, and review the need to modify the sampling and analysis plan to address any questions posed by the potential contaminant.

Additionally, in response to the City of Santa Fe's request that additional language related to confirmation sampling be added to step 2 above (May 07, 2013, email from Alex Puglisi to Steven Paris), the Laboratory will work with the Water Division to schedule a confirmation sampling event for potential detections of Laboratory contaminants. For constituents already collected on a quarterly basis, the confirmation sampling would be the regularly scheduled sampling event. The Laboratory will continue to coordinate the date and time of all sampling with the City to ensure wells are operating and City staff can be present during the sampling event.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@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/CD/SP:sm

Attachment: City of Santa Fe Buckman Water Supply Wells, 2013–2014 Sampling and Analysis Plan (LA-UR-13-23104)

Cy: (w/att.)
Laurie King, EPA Region 6, Dallas, TX
Alex Puglisi, City of Santa Fe, Santa Fe, NM
Claudia Borchert, City of Santa Fe, 801 West San Mateo, Santa Fe, NM 87505
Michael Gonzales, City of Santa Fe, 801 West San Mateo, Santa Fe, NM 87505
John Kieling, NMED-HWB, 2905 Rodeo Park Drive East, Building 1, Santa Fe, NM 87505
Margaret Ryan, NMED-DWB, P.O. Box 5469, Santa Fe, NM 87502
Steve Yanicak, NMED-DOE-OB, MS M894
Hai Shen, DOE-NA-00-LA, MS A316
Cheryl Rodriguez, DOE-NA-00-LA, MS A316
Tom Carver, DOE-NA-00-LA, MS A316
Steve Paris, EP-CAP, MS M992
epccat@lanl.gov
Public Reading Room (hard copy)
RPF (electronic copy)

Cy: (w/o att.)
Tom Skibitski, NMED-Resource Protection, Santa Fe, NM (date-stamped letter emailed)
lasomailbox@nnsa.doe.gov (date-stamped letter emailed)
Annette Russell, DOE-NA-00-LA (date-stamped letter emailed)
David Rhodes, DOE-NA-00-LA (date-stamped letter emailed)
Carl Beard, PADOPS (date-stamped letter emailed)
Mike Brandt, ADESHQ (date-stamped letter emailed)
Mike Saladen, ENV-RCRA (date-stamped letter emailed)
David Rogers, EP-ET (date-stamped letter emailed)
Danny Katzman, EP-ET (date-stamped letter emailed)
Craig Douglass, EP-CAP (date-stamped letter emailed)
Dave McInroy, EP-CAP (date-stamped letter emailed)
Jeff Mousseau, ADEP (date-stamped letter emailed)

City of Santa Fe Buckman Water-Supply Wells 2013–2014 Sampling and Analysis Plan

Location	Analytical Suites											
	Metals		Organics				Radionuclides		Inorganics			
	Metals[a]	Chromium	VOCs	SVOCs	PCBs	HEXP[b]	Radionuclides[c]	Low-Level Tritium	General Inorganics[d]	Nitrate+nitrate	Perchlorate	
Buckman No. 1	1, 3	—[e]	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 frequencies: 1 = Quarter 1 (Apr–June 2013); 2 = Quarter 2 (July–Sept 2013); 3 = Quarter 3 (Oct–Dec 2013); 4 = Quarter 4 (Jan–Mar 2014).

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, VOCs, SVOCs, PCBs, high explosive compounds (HEXP), diesel range organics, radionuclides, tritium, total cyanide, total Kjeldahl nitrogen (TKN), and total organic carbon (TOC).

[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 HEXP analytical suite includes the normal SW-846:8330 analytes plus pentaerythritol tetranitrate; triaminotrinitrobenzene; 3,5-dinitroaniline, tri(o-cresyl)phosphate; 2,4-diamino-6-nitrotoluene; and 2,6-diamino-4-nitrotoluene. These additional analytes are analyzed by SW-846:8321A.

[c] 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.

[d] 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.

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