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**Young, John, NMENV**

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**From:** Armand R. Groffman [groffman@lanl.gov]  
**Sent:** Monday, September 12, 2005 3:27 PM  
**To:** Young, John, NMENV  
**Cc:** Jean Dewart; Mat Johansen; Steven Rae; ER-Project Administration; David McInroy; David Rogers; John McCann; Yanicak, Steve; Daphne Schleft; Cobrain, Dave, NMENV; Laurie.Travizo@lanl.gov  
**Subject:** Additional Information regarding the Groundwater and Surface Water Sampling for the Week of September 12, 2005

**Attachments:** @

John et al.,  
Mortandad watershed wells and surface water locations with their respective analytical suites that are currently in the 21 day sampling schedule are presented in the attachment. Locations that have been sampled are shown in blue. This week we are concentrating on alluvial wells and R-33. Surface water locations and the intermediate wells will be completed by COB Tuesday (09/13/05). A string of Westbay sampling bottles detached from the haul line and are stuck in the inner casing at R-14. We are in the process of determining how to fish them out. We will sample as soon as the problem is solved.

Please contact me if there are questions.

Cheers,  
ARG

Armand R. Groffman  
Project Leader Groundwater Protection Program Environmental Stewardship -Water Quality and Hydrology Los Alamos National Laboratory  
505-6672682 (office)  
505 699-1046 (cell)  
groffman@lanl.gov

<< Mortandad Rd 2 Sampling Plan\_Weekof\_09-12-05\_NMED.xls (28.6KB)  
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Location	Water Body or Saturated Zone	Analytical Suites													
		Radionuclides*	Miami 3-H	General Inorganics	Metals <sup>^</sup>	VOCs	SVOCs	PCBs	Pesticides	HE	Extra Perchlorate	Gamma Spec	Lanthanides (EES-6)	Stable Isotopes (EES-6)	Tc-99
<b>Alluvial Groundwater</b>															
MCO-0.6	Alluvial	1		1#	1	1	1					1	1	1	1
MCA-1	Alluvial	1		1#	1	1	1					1	1	1	1
MCA-4	Alluvial	1		1#	1	1	1					1	1	1	1
MCA-5	Alluvial	1		1#	1	1	1					1	1	1	1
MCO-4B	Alluvial	1		1#	1	1	1					1	1	1	1
MCO-2	Alluvial	1		1#	1	1	1					1	1	1	1
MCO-5	Alluvial	1		1#	1	1	1					1	1	1	1
MCO-6	Alluvial	1		1#	1	1	1					1	1	1	1
TSCA-6	Alluvial	1		1#	1	1	1					1	1	1	1
MCA-2	Alluvial	1		1#	1	1	1					1	1	1	1
MCO-7	Alluvial	1		1#	1	1	1					1	1	1	1
MT-1	Alluvial	1		1#	1	1	1					1	1	1	1
MCO-7.5	Alluvial	1		1#	1	1	1					1	1	1	1
MT-2	Alluvial	1		1#	1	1	1					1	1	1	1
MT-3	Alluvial	1		1#	1	1	1					1	1	1	1
MT-4	Alluvial	1		1#	1	1	1					1	1	1	1
<b>Intermediate-Depth Groundwater</b>															
MCOI-8	Intermediate	1		1#	1	1	1					1	1	1	1
MCOI-4	Intermediate	1		1#	1	1	1					1	1	1	1
MCOI-5	Intermediate	1		1#	1	1	1					1	1	1	1
MCOI-6	Intermediate	1		1#	1	1	1					1	1	1	1
<b>Regional Groundwater</b>															
R-1	Regional	1	1	1#	1	1	1					1	1	1	1
R-14, screen 1	Regional			1#											
R-14, screen 2	Regional			1#											
R-33, screen 1	Regional	1	1	1#	1	1	1					1	1	1	1
R-33, screen 2	Regional	1	1	1#	1	1	1					1	1	1	1
R-15	Regional	1	1	1#	1	1	1					1	1	1	1
R-28	Regional	1	1	1#	1	1	1					1	1	1	1
R-13	Regional			1#										1	
R-34	Regional	1	1	1#	1	1	1					1	1	1	1

\* Radionuclides should include iso Pu, iso U, Am-241 by Alpha-spec, Gross A/B/G, tritium by liquid scintillation, strontium-90

# General inorg should include total alkalinity, total organic carbon, bromide, chloride fluoride, sulfate, perchlorate by LC/MS/MS, TKN, nitrate/nitrite, orthophosphate

^ METALS Should include 23 TAL Metals + Moly, strontium, boron, silica, cyanide

\*\* Limited General Organic Suite to include only total alkalinity, TOC, nitrate/nitrite, perchlorate by LC/MS/MS

**Wells that have been sampled are shown in blue**

Problems with sample bottles stuck in inner casing. In process of fishing them out.

SURFACE WATER			Analytical Suites													Comments		
Number	Location	Water Body or Saturated Zone	Radionuclides*	Miami 3-H	General Inorganics <sup>#</sup>	Metals <sup>^</sup>	VOCs	SVOCs	PCBs	Pesticides	HE	Four mobile	Discharge Plan	Gamma Spec	Lanthanides (EES-6)		Stable Isotopes (EES-6)	Tc-99
63	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)																	
63.21	E-1FW	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
63.22	E-1W	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
63.23	E-1E	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
64.24	M-1W	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
64.25	M-1E	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
64.26	M-2E	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
64.27	TS-1W	Base flow	1		1#	1	1	1	1	1				1	1	1	1	
64.28	TS-2E	Base flow	1		1#	1	1	1	1	1				1	1	1	1	

\* Radionuclides should include iso Pu, iso U, Am-241 by Alpha-spec, Gross A/B/G, tritium by liquid scintillation, strontium-90

# General Inorganics should include total alkalinity, total organic carbon, bromide, chloride fluoride, sulfate, perchlorate by LC/MS/MS, TKN, nitrate/nitrite, orthophosphate

^ METALS Should include 23 TAL Metals + Moly, Strontium, Boron, silica, cyanide