LANL TA 5 2002

R-13 TA-5
MCOBT-4.4 TA-5
CdV-R-37-2 TA-37
CdV-R-15-3 TA-15

Los Alamos
NATIONAL LABORATORY

Risk Reduction and Environmental
Groundwater Protection Program (RRES-GWPP)
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Date: September 10, 2002
Refer to: RRES-GWPP:02-02

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303

SUBJECT: SAMPLING NOTIFICATION FOR WELLS R-13, MCOBT-4.4, CdV-R-37-2, and CdV-R-15-3

Dear Mr. Young:

The Groundwater Protection Program will perform groundwater sampling of Wells R-13, MCOBT-4.4, CdV-R-37-2, and CdV-R-15-3 on or about the following dates in 2002.

CdV-R-15-3 September 16-19
CdV-R-37-2 September 20-25
R-13 September 26
MCOBT-4.4 September 27

CdV-R-37-2 and CdV-R-15-3 sampling is being completed as part of the Laboratory's addendum to the Corrective Measures Study (CMS) Plan for Potential Release Site 16-021(c) (LA-UR-98-3918; E/ER: 99-279). R-13 is being sampled as part of the Laboratory's Groundwater Protection Program. MCOBT 4.4 is being sampled as part of the Laboratory's Mortandad Canyon Work Plan (LA-UR-98-3918; EM/ER 97-388).

Samples will be collected as shown in the enclosed tables. If you have any questions or concerns, please feel free to give me a call at (505) 665-4681.

Sincerely,

Charles Nylander

Charles Nylander, Program Manager
Groundwater Protection Program

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Enclosure: Sampling Schedule Tables

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IM-5, MS A150
RPF, MS M707 (ER2002-0623)

R-13 and MCOBT-4.4 Quarterly Proposed Water Samples – 2nd Quarter							
Number of Water Samples	**Analytical Suite**	**Container**	**Preservation**	**Filtered through acetate 0.45 micron filter**	**Analytical Laboratory**	**Central Data Management Code**	
1	Volatile Organic Compounds with TICs	Two- 40 ml amber with septum cap	HCl to pH2, 4C	No	GEL	VOAGCMS w/ TICs	
1	Semivolatile Organic Compounds with TICs	Two liter glass amber	4C	No	GEL	SEMI w/TICs	
1	Pesticides/PCBs	Two liter glass amber	4C	No	GEL	PESTPCB	
1	High Explosives	Three liter glass amber	4C	No	GEL	HEXP	
1	TAL metals + Boron, *Molybdenum, Silicon, and Strontium*	500 mL poly	HNO3 to a pH of 2, 4C	Yes	GEL-ICPMS	METTAL	
1	TAL metals + Boron, *Molybdenum, Silicon, and Strontium*	500 mL poly	HNO3 to a pH of 2, 4C	No	GEL-ICPMS	METTAL	
1	ICPMS Metals: Antimony, Berllyium, Cadmium, Lead, Thallium, Uranium	500 mL poly	HNO3 to a pH of 2, 4C	Yes	GEL-ICPMS	CATMS Metals: Be, Cd, Pb, Sb, Tl, U	
1	ICPMS Metals: Antimony, Berllyium, Cadmium, Lead, Thallium, Uranium	500 mL poly	HNO3 to a pH of 2, 4C	No	GEL-ICPMS	CATMS Metals: Be, Cd, Pb, Sb, Tl, U	
1	Americium-241, Isotopic plutonium, Isotopic uranium, Gamma spectroscopy, Strontium-90	1 gallon plastic	HNO3 to a pH of 2, 4C	Yes	GEL	AM-241 + ISOPU + ISOU + GAMMA + SR90	
1	Americium-241, Isotopic plutonium, Isotopic uranium, Gamma spectroscopy, Strontium-90	1 gallon plastic	HNO3 to a pH of 2, 4C	No	GEL	AM-241 + ISOPU + ISOU + GAMMA + SR90	

1	Stable Isotopes 18O/16O, D/H	45 ml glass with poly seal cap	4 C	No	Geochron	D2H + 18O16O	
1	Stable Isotopes 15N/14N	1 liter poly	H2SO4 to pH of 2, 4 C	No	Coastal	N15N14	
1	Low Level Tritium	500 mL poly	Ambient temperature	No	University of Miami	LH3	**R-13**
1	Tritium	500 mL poly	Ambient temperature	No	GEL	H3	**MCOBT-4.4**
1	Total Cyanide	500 mL poly	NaOH to pH of 12, 4 C	No	GEL	CN	
1	*Humic Acid*	500 ml amber	4 C	Filter with silver filter	Huffman	HUMACID	
1	*Total Organic Carbon*	250 ml amber	4 C	No	GEL	TOC	
1	High Precision Uranium	2-1L poly	HNO3 to a pH of 2, 4C	Yes	LANL	TIMS	**MCOBT-4.4 only**
1	High Precision Uranium	2-1L poly	HNO3 to a pH of 2, 4C	No	LANL	TIMS	**MCOBT-4.4 only**
1	Gross alpha, beta, and gamma	1 L poly	HNO3 to a pH of 2, 4C	No	ARS	RVGROSSAB +RVGROSSG	**MCOBT-4.4 only**
1	Gross alpha, beta, and gamma	1 L poly	HNO3 to a pH of 2, 4C	No	GEL	GROSSAB + GROSSGAMMA	
1	Ammonium, Nitrate, Nitrite	1 L poly	H2SO4 to pH of 2, 4 C	Yes	GEL	NH4 and NO2+NO3	
1	Alkalinity, Br-1, Cl-1, F-1, PO4, SO4	250 mL poly	4 C	Yes	GEL	ALKT + BR(-1) + Cl(-1) + Fl(-1) + PO4 + SO4(-2)	
1	*Perchlorate*	250 mL poly	4 C	Yes	GEL	CLO4(-1)	
1	Total Keldahl Nitrogen	250 mL poly	H2SO4 to pH of 2, 4 C	Yes	GEL	TKN	
1	Total Keldahl Nitrogen	250 poly	H2SO4 to pH of 2, 4 C	No	GEL	TKN	
1	QA – Field Trip Blank	Two- 40 ml amber with septum cap	HCl to pH2, 4C	No	GEL	VOAGCMS w/ TICs	

CDV-37 Fourth Quarter 2002 & CdV-15 (Eighth Quarter total) Fourth Quarter 2002 Proposed Water Samples							
Number of Water Samples per Screen	**Analytical Suite**	**Container**	**Preservation**	**Filtered through acetate 0.45 micron filter**	**Analytical Laboratory**	**Central Data Management Code**	**Comments**
1	*ICPOES Metals* - Ca, Fe, Mn, Mg, Na, K, Ba	500 ml poly	HNO3 to a pH of 2, 4C	No	GEL	METALS	All screens. *
1	*ICPOES Metals* - Ca, Fe, Mn, Mg, Na, K, Ba	500 ml poly	HNO3 to a pH of 2, 4C	Yes	GEL	METALS	All screens. *
1	Stable Isotopes 15N/14N	2 L poly	H2SO4 to pH of 2, 4 C	No	Coastal	N15N14	All screens. *
1	Stable Isotopes D2H + 18O/16O	40 ml septum amber	4C	No	GEL	D2H + 18O/16O	All screens. *
1	Low Level Tritium	500 mL poly	Ambient temperature	No	University of Miami	LH3	All screens. *
1	Total Organic Carbon	250 ml amber glass with poly seal cap	4 C	No	GEL	TOC	All screens. *
1	*Ammonium*, Nitrate, Nitrite	1 L poly	H2SO4 to pH of 2, 4 C	No	GEL	NH4 and NO2+NO3	All screens. *
1	*Ammonium*, Nitrate, Nitrite	1 L poly	H2SO4 to pH of 2, 4 C	Yes	GEL	NH4 and NO2+NO3	All screens. *
1	*Alkalinity, Br-1, Cl-1, F-1, PO4, SO4*	1 L poly	Ambient temperature	Yes	GEL	ALKT +BR(-1) + CL(-1) +F(-1) + +PO4 + SO4(-2)	All screens. *
1	*Total Keldahl Nitrogen*	250 mL poly	Ambient temperature	Yes	GEL	TKN	All screens. *
1	High Explosives	3 x 1 L glass amber	4C	No	GEL	HEXP	All screens. *
1	High Explosives Compounds-Modified	2 x 1 L galss amber	4C	No	Severn Trent	HEXPMOD	All screens. *
1	Anions-EZ Mud titration	1 gallon poly	4C	No	Dale Counce	ANIONS	All screens. *
1	Anions-EZ Mud titration	1 gallon poly	4C	Yes	Dale Counce	ANIONS	All screens. *

1	Semivolatile Organic Compounds w/ TIC's	2 x 1 L glass amber	4C	No	GEL	SEMI w/ TIC's	All screens. *
1	Volatile Organic Compounds w/ TIC's	Two- 40 ml amber w/ septum cap	HCl to pH2, 4C		GEL	VAOAGCMS w/ TIC's	All screens. *
1	QA - Field Trip Blank	Two- 40 ml amber w/ septum cap	HCl to pH2, 4C	No	GEL	VAOAGCMS w/ TIC's	All screens. *

* CdV-15 has six screens.
* CdV-37 has four screens.