



Environmental Protection Division Water Quality & RCRA Group (ENV-RCRA) P.O. Box 1663, Mail Stop M704 Los Alamos, New Mexico 87545 (505) 667-0666/FAX: (505) 667-5224

Mr. John E. Kieling Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Drive East, Building 1 Santa Fe, NM 87505-6303

Dear Mr. Kieling:

Date: December 1, 2011 Refer To: ENV-RCRA-11-0267 LAUR: 11-12124



SUBJECT: LOS ALAMOS NATIONAL LABORATORY, RESPONSE TO REQUEST FOR INFORMATION REGARDING REGIONAL WELL R-61 STORMWATER POND

Los Alamos National Laboratory's Water Quality & RCRA Group (ENV-RCRA) received notification from the New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB) of a potential spill at the R-61 Well site on November 16, 2011. In the November 16th email, HWB staff mentioned the presence of "oil sludge" within the stormwater detention pond at the well site. ENV-RCRA staff responded on November 16th to investigate the potential release. Based on the site investigation, it appeared the material in the detention pond was residual drill cuttings associated with the construction of R-61. ENV-RCRA consulted with project staff and confirmed the material in the pond was associated with drill cuttings and was placed in the pond on October 14, 2011. The material had been approved for land application in accordance with the NMED approved *Notice of Intent Decision Tree for Land Application of IDW Solids from Construction of Wells and Boreholes* (November, 2007) and were residual following removal of the drill cuttings retention pond liner. There did not appear to be any evidence that the residual material discharged outside of the pond. The release did not leave Laboratory property or impact San Ildefonso Pueblo property. The residual material was removed from the pond on November 17, 2011 for disposal as industrial waste.

Enclosed is analytical data for the cuttings from the land application package. Based on the composition of the drill cuttings and the actions taken to remove the material from the pond, this release is not reportable as defined by 20.6.2.1203 NMAC. Additionally, this information has been documented in the National Pollution Discharge Elimination System (NPDES) Construction General Permit, Storm Water Pollution Prevention Plan for the R-61 well site.

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3391 Sampling event ID

Detected Chemicals Form

SWMU av 3391.3420 Stockpile Number av 3391.3420

page 3 of 0 ed Excel file: ev3420.3391.aud.5.19.2011_R-81 Dr8 **Cuttings.sis** evoluation date: 5/19/2011

Analyte	CAS/ Symbol	concen- tration	unit of measure	Non- wastewater LDR	Hazardous Soil LDR	Potential Haz F-codes	Potential Haz K-codes	Potential Haz U-codes	Potential Haz P-codes	comments
Acetone	67-64-1	0.032	molko	Dess	Dass					Fillin Million Contempt
	A		ma/ka		1	and a second second second and a second s		presidente en la carde forte de la sector de la companya de la compa	1	
Arsenic	As	0.429		2856	C865		10031,K080,K161,K171,K172,K178,K 064,K101,K102,			a sufficient and an and a sufficient
Barium	Ba	27.9	mg/kg	pass	pass					and the second
Beryllium	Be	0.174	mg/kg	pass	pass					the attended of the other of
BHC[beta-]	319-85-7	0.00288		PBS \$	pass				·	Carl Start Wards and the second
BHC[gamma-]	58-89-9	0.00076	mg/kg	pass	pass			U 1129 ,		A HE REPART OF SAME
Butanone[2-]	78-93-3	0.00491		pass	p865	The set of the stands of the		17759 , ***	ž.	
	Ca	2010	mg/kg							Carden and Carolina and A
Chlordane[gamma-]	5103-74-2	0.00263	mg/kg				K097,			CONTRACTOR AND A STATE
Chloride	CI(-1)		mg/kg							Company and the second second
	Cr			pess	pass		K090,			
Cobalt	Co	3.09	mg/kg							an share a share
Copper	Cu	7.91	mg/kg							
Fluoride	F(-1)	1.32	mg/kg							Sec. B. St. Barrow
iron	Fe	7650	mo/kg							
Lead	Pb	2.35	mg/kg	pees	pess		K002,K003,K005,K048,K049,K051,K 052,K064,K096,K100,K176,K045,K0 52,K061,K099,			
Manganese	Mn	128	mg/kg							Same State 1 . State
	108-10-1			pess	pass					COS/UNCLOOMEND
	Ni			0655	pass	and the second				
Potassium	ĸ		mg/kg							
	Na		mg/kg							ender state in the second second
	SO4(-2)		mg/kg							18 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
Thallium	П	0.114	mg/kg				K178,			and second of second second
Total Petroleum Hydrocarbons Diesel Range Organics	TPH-DRO	26.2	mg/kg							
Total Petroleum Hydrocarbons Gasoline Range Org.	TPH-GRO	0.0302	maka							
	U		mg/kg			1	1		1	
	U V			Cass	Dess		<u> </u>		<u> </u>	
	V Zn			Dess	pass pass				<u>+</u>	and a standard and a Standard and a standard

Mr. John E. Kieling ENV-RCRA-11-0267

Please contact Jake Meadows at ENV-RCRA at (505) 606-0185 regarding future questions related to releases or if more information would be helpful.

Sincerely,

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for Anthony R. Grieggs Group Leader Water Quality & RCRA Group (ENV-RCRA)

ARG:JM/lm

Cy: Hannah Branning, USEPA/Region 6, Dallas, TX, w/enc. Jennifer Fullam, NMED/GWQB, Santa Fe, NM, w/enc. Richard Powell, NMED/SWQB, Santa Fe, NM, w/enc. Dave Cobrain, NMED/HWB, Santa Fe, NM, w/enc. Jerzy Kulis, NMED/HWB, Santa Fe, NM, w/enc. Michael Dale, NMED/HWB, Santa Fe, NM, w/enc. Erik Galloway, NMED/DOE/OB, Santa Fe, NM, w/enc. Steve Yanicak, LASO-GOV, M894, w/enc. Hai Shen, LASO-EO, w/enc., A316 Gene Turner, LASO-EO, w/o enc., A316 Jeffrey M. Casalina, LASO-EO, w/o enc., A316 Carl A. Beard, PADOPS, w/o enc., A102 Michael T, Brandt, ADESH, w/o enc., K491 Victoria A. George, REG-DO, w/o enc., M991 Kate Lynnes, REG-DO, w/o enc., M991

> ENV-RCRA File, w/enc., K490 IRM-RMMSO, w/enc., A150

Mike Saladen, ENV-RCRA, w/enc., K490, (E-File) Jacob Meadows, ENV-RCRA, w/enc., K490, (E-File)

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