Permit

John Y

Los Alamos
NATIONAL LABORATORY
EST. 1943

Los Alamos National Laboratory
Environmental Programs
LANL Water Stewardship, MS M992
Los Alamos, New Mexico 87545
(505) 665-0239/FAX (505) 665-4747

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

Date: June 28, 2006
Refer to: EP2006-0605

Ms. Sonia Cantu
U.S. Environmental Protection Agency, Region 6
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-WC)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

SUBJECT: MONTHLY WATER SCREENING ACTION LEVEL EXCEEDANCE REPORT AT LOS ALAMOS NATIONAL LABORATORY, STORM WATER PERMIT APPLICATION NO. NM0030759

Dear Ms. Cantu:

Enclosed please find the water screening action level (wSAL) monitoring exceedance report for storm water discharges from solid waste management units (SWMUs) at Los Alamos National Laboratory. This report is being submitted in accordance with the requirements of the Federal Facility Compliance Agreement (FFCA) Docket No. CWA-06-2005-1701, dated February 3, 2005, and the Administrative Order (AO) Docket No. CWA-06-2005-1734, dated March 22, 2005. As specified in Section V, Reporting, 25, of the FFCA: "Exceedances of water screening action levels (wSALs) shall be reported in writing to EPA and NMED monthly by the 28th day of the following month for which analytical results are received".

As you know, reporting is required on a monthly basis and includes the data collected from the beginning of the calendar year. During 2006, no stormwater samples were collected during January, February, or March (Quarter 1 of 2006). Following the FFCA requirements, sample data are evaluated on a quarterly basis to identify the corrective action requirements. Data collected during April and May are presented in this month's report, as Quarter 2 results for 2006.

The report includes analytical data collected and loaded into Water Quality Database (WQDB) from January 1, 2006 – June 12, 2006. The reported data include

- 5 runoff watershed-scale samples in April at 3 gage stations, and
- 7 runoff site-specific samples in April at 5 site-monitoring-areas (SMAs)

The total samples collected to date include 7 watershed-scale samples:

- 5 runoff samples in April at 3 gage stations,
- 2 runoff samples in May at 1 gage station, and
- 12 site-specific samples:
    - 7 runoff samples in April at 5 SMAs
    - 3 runoff samples in May at 2 SMAs
    - 2 runoff samples in June at 2 SMAs

(Note: Some of the SMA samples are also watershed samples where gage stations are used for both purposes.)

The results of the sample data comparison with wSALs are provided for your review (see tables). If you need additional information regarding this report, please contact Steve Veenis at 667-0013 (veenis@lanl.gov) or Gene Turner at 667-5794 (gturner@doeal.gov).

Sincerely,

for Andrew Phelps,
Associate Director,
Environmental Programs
Los Alamos National Laboratory

Sincerely,

Gene Turner,
Environmental Permitting
Department of Energy
Los Alamos Site Office

AP/DG/SV/ew

Enclosures: Six tables of the results of the sample data comparison with wSALs

Cy: (w/enc.)
T. Behr-Andres, EP-WSP, MS M992
S. Veenis, ENVP-RCRA, MS K490
K. Birdsall, EP-WSP, MS M992
I. Chen, USEPA - Region 6
J. Dewart, EP-WSP, MS M992
A. Dorries, EP-ERSS, MS M992
R. Ford-Schmid, DOE-OB
D. Gregory, DOE LASO, MS A316
M. Johansen, DOE LASO, MS A316
M. Leavitt, NMED-SWQB
C. Mangeng, ADEP, MS J591
A. Phelps, ADEP, MS J591

T. Sharpe, USEPA - Region 6
J. Young, NMED-HWB
EP-WSP File, MS M992
RPF, MS M707

Cy: (w/o enc.)
M. Everett, EP-WSP MS M992
V. George, ENVP, MS J978
D. Katzman, EP-WSP, MS M992
T. Grieggs, ENVP-RCRA, MS K490
A. Groffman, EP-WSP, MS M992
M. Saladen, ENVP-RCRA, MS K490
T. Sandoval, ENVP-RCRA, MS K490
C. Smith, ENVP-RCRA, MS K490
P. Reneau, ENVP-RCRA, MS K490
P. Wardwell, LC-ESH, MS A187
G. Rodriquez, DOE LASO, MS A316
IRM-RMMSO, MS A150

Watershed Storm Water Monitoring 2006
Cumulative to June 12, 2006
Analytical Results greater than wSAL - Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Quarter	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results			wSAL		
									Average	Minimum	Maximum	Stream Type	Value	Units
E201.3	Ten Site below MDA C	Q2	UF	METALS	Arsenic	1	1	1	13.4	13.4	13.4	Ephemeral	9	ug/L
E201.3	Ten Site below MDA C	Q2	UF	METALS	Copper	1	1	1	17.6	17.6	17.6	Ephemeral	14	ug/L
E201.3	Ten Site below MDA C	Q2	UF	METALS	Zinc	1	1	1	998	998	998	Ephemeral	120	ug/L
E243.5	Twomile tributary at TA-3	Q2	UF	METALS	Arsenic	3	1	1	17.6	17.6	17.6	Ephemeral	9	ug/L
E243.5	Twomile tributary at TA-3	Q2	UF	METALS	Copper	3	3	3	118	93.6	141	Ephemeral	14	ug/L
E243.5	Twomile tributary at TA-3	Q2	UF	METALS	Zinc	3	3	3	658	557	774	Ephemeral	120	ug/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	METALS	Arsenic	1	1	1	19.7	19.7	19.7	Perennial	9	ug/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	METALS	Cadmium	1	1	1	1.4	1.4	1.4	Perennial	0.28	ug/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	METALS	Copper	1	1	1	90	90	90	Perennial	9.4	ug/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	METALS	Lead	1	1	1	63.3	63.3	63.3	Perennial	3.2	ug/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	METALS	Zinc	1	1	1	853	853	853	Perennial	120	ug/L

Watershed Storm Water Monitoring 2006
Cumulative to June 12, 2006
Analytical Results greater than wSAL - Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Quarter	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results			wSAL		
									Average	Minimum	Maximum	Stream Type	Value	Units
E201.3	Ten Site below MDA C	Q2	UF	GENINORG	Magnesium	1	1	1	1.39	1.39	1.39	Ephemeral	0.00636	mg/L
E201.3	Ten Site below MDA C	Q2	UF	METALS	Aluminum	1	1	1	4380	4380	4380	Ephemeral	750	ug/L
E243.5	Twomile tributary at TA-3	Q2	UF	GENINORG	Chemical Oxygen Demand	2	2	2	144.5	114	175	Ephemeral	120	mg/L
E243.5	Twomile tributary at TA-3	Q2	UF	GENINORG	Magnesium	3	3	3	2.04	1.44	2.53	Ephemeral	0.00636	mg/L
E243.5	Twomile tributary at TA-3	Q2	UF	METALS	Aluminum	3	3	3	2890	1760	3790	Ephemeral	750	ug/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	GENINORG	Magnesium	1	1	1	7.02	7.02	7.02	Perennial	0.00636	mg/L
E122	Sandia left fork at Asphalt Plant	Q2	UF	METALS	Aluminum	1	1	1	27000	27000	27000	Perennial	87	ug/L

Watershed Storm Water Monitoring 2006
Cumulative to June 12, 2006
Analytical Results greater than wSAL - Summary for Gross Alpha

Station ID	Station Name	Quarter	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results			wSAL		
									Average	Minimum	Maximum	Stream Type	Value	Units
E243.5	Twomile tributary at TA-3	Q2	UF	RAD	Gross alpha	3	2	1	18.8	13.8	23.8	Ephemeral	15	pCi/L
E243.5	Twomile tributary at TA-3	Q2	UF	RAD	Gross alpha, adjusted	3	3	1	10.8	0.7	21.6	Ephemeral	15	pCi/L

Site-Specific Storm Water Monitoring 2006
Cumulative to June 12, 2006
Analytical Results greater than wSAL - Summary for Potential Laboratory-Derived Pollutants

Station ID	Station Name	Quarter	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results			wSAL		
									Average	Minimum	Maximum	Stream Type	Value	Units
2M-SMA-2	E2435	Q2	UF	METALS	Arsenic	3	1	1	17.6	17.6	17.6	Ephemeral	9	ug/L
2M-SMA-2	E2435	Q2	UF	METALS	Copper	3	3	3	118	93.6	141	Ephemeral	14	ug/L
2M-SMA-2	E2435	Q2	UF	METALS	Zinc	3	3	3	658	557	774	Ephemeral	120	ug/L
LA-SMA-1.5(S)	02653-S	Q2	UF	METALS	Arsenic	1	1	1	10	10	10	Ephemeral	9	ug/L
LA-SMA-1.5(S)	02653-S	Q2	UF	METALS	Copper	1	1	1	92.5	92.5	92.5	Ephemeral	14	ug/L
LA-SMA-1.5(S)	02653-S	Q2	UF	METALS	Zinc	1	1	1	867	867	867	Ephemeral	120	ug/L
PJ-SMA-15	E249.5	Q2	UF	METALS	Copper	1	1	1	14.4	14.4	14.4	Ephemeral	14	ug/L
T-SMA-1	E201.3	Q2	UF	METALS	Arsenic	1	1	1	13.4	13.4	13.4	Ephemeral	9	ug/L
T-SMA-1	E201.3	Q2	UF	METALS	Copper	1	1	1	17.6	17.6	17.6	Ephemeral	14	ug/L
T-SMA-1	E201.3	Q2	UF	METALS	Zinc	1	1	1	998	998	998	Ephemeral	120	ug/L
S-SMA-1	E122	Q2	UF	METALS	Arsenic	1	1	1	19.7	19.7	19.7	Perennial	9	ug/L
S-SMA-1	E122	Q2	UF	METALS	Cadmium	1	1	1	1.4	1.4	1.4	Perennial	0.28	ug/L
S-SMA-1	E122	Q2	UF	METALS	Copper	1	1	1	90	90	90	Perennial	9.4	ug/L
S-SMA-1	E122	Q2	UF	METALS	Lead	1	1	1	63.3	63.3	63.3	Perennial	3.2	ug/L
S-SMA-1	E122	Q2	UF	METALS	Zinc	1	1	1	853	853	853	Perennial	120	ug/L

Site-Specific Storm Water Monitoring 2006
Cumulative to June 12, 2006
Analytical Results greater than wSAL - Summary for Potential Non-Laboratory Derived Pollutants

Station ID	Station Name	Quarter	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results			wSAL		
									Average	Minimum	Maximum	Stream Type	Value	Units
2M-SMA-2	E2435	Q2	UF	GENINORG	Chemical Oxygen	2	2	2	144.5	114	175	Ephemeral	120	mg/L
2M-SMA-2	E2435	Q2	UF	GENINORG	Magnesium	3	3	3	2.04	1.44	2.53	Ephemeral	0.00636	mg/L
2M-SMA-2	E2435	Q2	UF	METALS	Aluminum	3	3	3	2890	1760	3790	Ephemeral	750	ug/L
LA-SMA-1.5(S)	02653-S	Q2	UF	GENINORG	Chemical Oxygen	1	1	2	260	260	260	Ephemeral	120	mg/L
LA-SMA-1.5(S)	02653-S	Q2	UF	GENINORG	Magnesium	1	1	1	8.56	8.56	8.56	Ephemeral	0.00636	mg/L
LA-SMA-1.5(S)	02653-S	Q2	UF	METALS	Aluminum	1	1	1	25900	25900	25900	Ephemeral	750	ug/L
PJ-SMA-15	E249.5	Q2	UF	GENINORG	Magnesium	1	1	1	2.51	2.51	2.51	Ephemeral	0.00636	mg/L
T-SMA-1	E201.3	Q2	UF	GENINORG	Magnesium	1	1	1	1.39	1.39	1.39	Ephemeral	0.00636	mg/L
T-SMA-1	E201.3	Q2	UF	METALS	Aluminum	1	1	1	4380	4380	4380	Ephemeral	750	ug/L
S-SMA-1	E122	Q2	UF	GENINORG	Magnesium	1	1	1	7.02	7.02	7.02	Perennial	0.00636	mg/L
S-SMA-1	E122	Q2	UF	METALS	Aluminum	1	1	1	27000	27000	27000	Perennial	87	ug/L

Site-Specific Storm Water Monitoring 2006
Cumulative to June 12, 2006
Analytical Results greater than wSAL - Summary for Gross Alpha

Station ID	Station Name	Quarter	F/UF	Analytical Suite	Analyte	Number of Analyses	Number of Detects	Number > wSAL	Summary of Detected Results			wSAL		
									Average	Minimum	Maximum	Stream Type	Value	Units
2M-SMA-2	E2435	Q2	UF	RAD	Gross alpha	3	2	1	18.8	13.8	23.8	Ephemeral	15	pCi/L
2M-SMA-2	E2435	Q2	UF	RAD	Gross alpha, adjusted	3	3	1	10.8	0.7	21.6	Ephemeral	15	pCi/L