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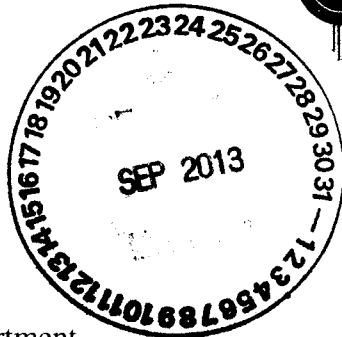
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Los Alamos, New Mexico 87544  
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Date: SEP 23 2013  
Refer To: EP2013-0208

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

**Subject: Response to Review of the Periodic Monitoring Report for Mortandad and Sandia Watersheds General Surveillance Monitoring Group, August 7– August 23, 2012, Los Alamos, New Mexico**

Dear Mr. Kieling:

The New Mexico Environment Department (NMED) provided a comment on May 17, 2013, on the Mortandad and Sandia Watershed General Surveillance Monitoring Group, August 7– August 23, 2012, submitted in February 2013 by the U.S. Department of Energy (DOE) and Los Alamos National Security, LLC (LANS) (collectively, the Permittees). To facilitate review of the Permittees’s response, NMED’s comment is included verbatim, followed by the Permittees’s response.

**NMED Comment:**

*NMED noted an inconsistency with the alkalinity value reported for sample number CAMO-12-14035 in Table C (365 mg/L) and in the analytical laboratory’s report provided in Attachment F (0.0375 mg/L). The Permittees must correct this inconsistency in all future periodic monitoring reports and within the INTELLUS database.*

**LANL Response:**

The page from the analytical laboratory’s report provided in Appendix F and a section of Table C-2, are presented below. The alkalinity values in the table in Appendix F of the periodic monitoring report and the table in Appendix C match. Therefore, no corrections to the Intellus database or future periodic monitoring reports are necessary.

Excerpt from Appendix F showing general chemistry results for sample CAMO-12-14035:



**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Certificate of Analysis**

Report Date: June 26, 2012

Company: Los Alamos National Laboratory  
 Address: PO Box 1663  
 TA-03, SM271, Drop Pt 02U, Rm111  
 Los Alamos, New Mexico 87545

Contact: Keith Greene  
 Project: LANL-WQH Water Samples

Client SDG: 12-1330

Client Sample ID: CAMO-12-14035  
 Sample ID: 305251002  
 Matrix: W  
 Collect Date: 30-MAY-12 11:54  
 Receive Date: 01-JUN-12  
 Collector: Client

Project: ESHL00210  
 Client ID: ARSL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Conductivity Analysis</b>											
EPA120 1 Specific Conductivity "As Received"											
Conductivity		155	100	100	umhos/cm	1	TXT1	06 05 12	1621	1218489	1
<b>Electrode Analysis</b>											
EPA 150 1 pH "As Received"											
pH at Temp 16.5C	H	8.35	0.010	0.100	SU	1	LXA1	06 05 12	1457	1218084	2
<b>Ion Chromatography</b>											
EPA 300 0 Anions Liquid 28 day "As Received"											
Bromide	U	ND	0.067	0.200	mg/L	1	MAR1	06 08 12	0906	1217492	3
Chloride		2.35	0.067	0.200	mg/L	1					
Fluoride		0.353	0.033	0.100	mg/L	1					
Sulfate		2.75	0.133	0.400	mg/L	1					
<b>Nutrient Analysis</b>											
EPA 350 1 Nitrogen, Ammonia L "As Received"											
Nitrogen, Ammonia	J	0.018	0.017	0.050	mg/L	1	KLP1	06 12 12	1251	1219048	4
EPA 353 2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.570	0.085	0.250	mg/L	5	KLP1	06 06 12	1411	1217974	5
EPA 365 4 Phosphorus, Total in "As Received"											
Phosphorus, Total as P	J	0.0375	0.017	0.050	mg/L	1	KLP1	06 14 12	1022	1218073	6
<b>Solids Analysis</b>											
EPA 160 1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		116	3.40	14.3	mg/L		LYG1	06 05 12	0952	1218215	7
<b>Titration Analysis</b>											
EPA 310 1 Total Alkalinity "As Received"											
Alkalinity, Total as CaCO3		365	0.725	1.00	mg/L		LXA1	06 04 12	1718	1217653	8
Carbonate alkalinity (CaCO3)		10.7	0.725	1.00	mg/L						

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350 2 Prep	EPA 350 1 Ammonia Nitrogen Prep	KLP1	06 12 12	1145	1219047
EPA 365 4 Prep	EPA 365 4 Phosphorus Total in liquid PP	KLP1	06 13 12	1330	1218072

Excerpt of Table C-2 showing alkalinity results for sample CAMO-12-14035:

Location	Date	EPA Method	Analyte	Analyte Code	Result	MDL	Unit	Request	Sample	Lab
R-34	05/30/12	310.1	Alkalinity-CO <sub>3</sub>	ALK-CO <sub>3</sub>	10.7	0.725	mg/L	12-1330	CAMO-12-14035	GELC
R-34	05/30/12	310.1	Alkalinity-CO <sub>3</sub> +HCO <sub>3</sub>	ALK-CO <sub>3</sub> +HCO <sub>3</sub>	365	0.725	mg/L	12-1330	CAMO-12-14035	GELC

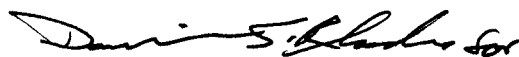
If you have any questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@nnsa.doe.gov).

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/SM:sm

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Hai Shen, DOE-NA-00-LA (date-stamped letter emailed)  
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Craig Douglass, EP-CAP (date-stamped letter emailed)  
Jeff Mousseau, ADEP (date-stamped letter emailed)  
Wendy Staples, EP-REG (date-stamped letter emailed)  
Public Reading Room (hard copy)  
RPF (electronic copy)