



Department of Energy

Washington, DC 20585

May 14, 2014

To: Distribution

Subject: June 2014 Environmental Sampling at Durango, Colorado, Processing Site and Disposal Sites

The purpose of this letter is to inform you of the upcoming sampling at Durango, Colorado. Enclosed are the maps and tables specifying sample locations and analytes for monitoring at the Durango sites. Water quality data will be collected from monitoring wells at these sites as part of the routine environmental sampling currently scheduled to begin the week of June 2, 2014. Surface water sampling will be conducted in September.

The following lists show the monitoring wells (with zone of completion) and surface locations scheduled to be sampled during this event.

Monitoring Wells

DUR01 Mill Site

612 Al/Km	622 Al	630 Al/Km	633 Km	635 Km	863 Al	866 Al
617 Al	629 Al/Km	631 Al/Km	634 Km	857 Al		

DUR02 Raffinate Pond

594 Mf	598 Mf/Pl	607 Al	879 Mf	884 Al		
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DUR03 Bodo Canyon

605 Cf	607 Cf	608 Al	612 Km	618 Al	621 Cf	623 Al
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*NOTE: Al = Alluvium; Cf = Cliff House Formation; Km = Mancos Shale; Mf = Menefee Formation; Pl = Point Lookout Formation

All samples will be collected as directed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. Access agreements are being reviewed and are expected to be complete by the beginning of fieldwork. All analytes and locations were selected based on the site regulatory documents (Processing Site – Draft Groundwater Compliance Action Plan; Disposal Site – Long-Term Surveillance and Maintenance Plan).

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Distribution

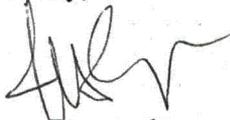
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May 14, 2014

Please contact me at (970) 248-6690 if you have any questions. Please send any correspondence to:

U.S. Department of Energy
Office of Legacy Management
2597 Legacy Way
Grand Junction, CO 81503

Sincerely,



Jalena Dayvault
Site Manager

Enclosures

Distribution:

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File: DUP 400.02 (re grand junction)

Sampling Events-DVPs-VMRs/Sampling Event-Durango June 2014.doc

Constituent Sampling Breakdown

Site	Durango		Required Detection Limit (mg/L)	Analytical Method	Line Item Code
	Groundwater	Surface Water			
Analyte					
Approx. No. Samples/yr	20	7			
Field Measurements					
Alkalinity	X	X			
Dissolved Oxygen					
Redox Potential	X	X			
pH	X	X			
Specific Conductance	X	X			
Turbidity	X				
Temperature	X	X			
Laboratory Measurements					
Aluminum					
Ammonia as N (NH ₃ -N)					
Cadmium	0612 & 0863 only	X	0.001	SW-846 6020	LMM-02
Calcium	DUR03 only		5	SW-846 6010	LMM-01
Chloride	0622, 0629, 0857, 0866, and DUR03 only		0.5	SW-846 9056	MIS-A-039
Chromium					
Iron	0622, 0629, 0857, 0866, and DUR03 only		0.1	SW-846 6020	LMM-01
Lead					
Magnesium	DUR03 only		5	SW-846 6010	LMM-01
Manganese	All Mill Tailings Areas and Bodo Canyon locations		0.005	SW-846 6010	LMM-01
Molybdenum	All Mill Tailings Areas and Bodo Canyon locations	X	0.003	SW-846 6020	LMM-02
Nickel					
Nitrate + Nitrite as N (NO ₃ +NO ₂)-N					
Potassium	DUR03 only		1	SW-846 6010	LMM-01
Selenium	X	X	0.0001	SW-846 6020	LMM-02
Silica					
Sodium	DUR03 only		1	SW-846 6010	LMM-01
Strontium					
Sulfate	All Mill Tailings Areas and Bodo Canyon locations		0.5	SW-846 9056	MIS-A-044
Sulfide					
Total Dissolved Solids	DUR03 only		10	SM2540 C	WCH-A-033
Uranium	X	X	0.0001	SW-846 6020	LMM-02
Zinc					
Total No. of Analytes	13	4			

Note: All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

**Sampling Frequencies for Locations at
Durango, Colorado**

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitoring Wells						
<i>DUR01 Mill Tailings</i>						
612			X			
617			X			
622			6/14 only			One-time only
629			6/14 only			One-time only
630			X			
631			X			Download datalogger
633			X			Download datalogger
634			X			
635			X			
857			6/14 only			One-time only
859					X	Download datalogger
863			X			Download datalogger
866			6/14 only			One-time only
<i>DUR02 Raffinate Pond</i>						
594			X			Se and U ONLY
596					X	Download datalogger
598			X			Se and U ONLY
607			X			Se and U ONLY
879			X			Se and U ONLY
884			X			Se and U ONLY
888					X	Download datalogger
889					X	Download datalogger
890					X	Download datalogger
<i>DUR03 Bodo Canyon</i>						
605			X			
607			X			POC WELL
608			X			"
612			X			"
618			X			"; supplements 608
621			X			"
623			X			BACKGROUND
MW-1					X	Download datalogger
NVP					X	Download datalogger
P7					X	Download datalogger

Groundwater sampling conducted in June; surface water sampling conducted in September.

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,**

**THAT CAN BE VIEWED AT THE
RECORD TITLED:
PLANNED SAMPLING LOCATIONS**

DURANGO, CO. DISPOSAL SITE

JUNE 2014

File Name: S1177800

D-01X