

**CAMECO RESOURCES
CROW BUTTE OPERATION**



86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

April 21, 2008

Stephen J. Cohen, Project Manager
Decommissioning & Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Mailstop T8-F5
Washington D.C. 20555-0001

Subject: Sediment Samples from Wellhouse #1 and Wellhouse #2 in Mine Unit #1

Dear Mr. Cohen:

Enclosed is the sediment sampling results from the basements of Wellhouse #1 and Wellhouse #2 in Mine Unit #1. The samples were a composite sample of the entire floor area and should be representative of the contamination level for the entire area.

Cleanup requirements for wellfield decommissioning are listed in the Environmental, Health and Safety Management System, Volume VI, *Environmental Manual*, Chapter 12, *Crow Butte Wellfield Reclamation*. The Crow Butte Soil Cleanup Standards are 5 pCi/gm for Radium-226 surface samples, 15 pCi/gm for Radium-226 subsurface samples, and 230 pCi/gm for Natural Uranium surface and subsurface samples. As the laboratory results indicate, no further cleanup of the basements is required. A walk-over gamma survey of the two areas has been completed and the two basements have been covered.

If you have any additional questions please feel free to contact me at (308)-665-2215 ext 114.

Sincerely,
CROW BUTTE OPERATION

Larry Teahon
Manager of Environmental, Health and Safety

cc: Decommissioning File



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Not Indicated
 Lab ID: C07100471-001
 Client Sample ID: Sample #1 WH 1 Basement

Report Date: 11/29/07
 Collection Date: 09/30/07
 Date Received: 10/09/07
 Matrix: Sediment

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Uranium	19.0	mg/kg-dry	D	0.03		SW6020	10/12/07 23:37 / bws
Uranium, Activity	12.9	pCi/g-dry	D	0.02		SW6020	10/12/07 23:37 / bws
RADIONUCLIDES - TOTAL							
Radium 226	2.4	pCi/g-dry		0.1		E903.0	10/24/07 12:56 / trs
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	10/24/07 12:56 / trs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
Project: Reclamation Sediment
Lab ID: C06120160-001
Client Sample ID: WH2 Basement-Post Cleanup

Report Date: 12/28/06
Collection Date: 11/30/06
Date Received: 12/05/06
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Uranium	3.09	mg/kg-dry		0.02		SW6020	12/08/06 13:18 / sml
Uranium, Activity	2.10	pCi/g-dry		0.01		SW6020	12/08/06 13:18 / sml
RADIONUCLIDES - TOTAL							
Radium 226	0.4	pCi/g-dry		0.1		E903.0	12/18/06 13:20 / cw
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	12/18/06 13:20 / cw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.