



# Department of Environmental Quality

*To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

Todd Parfitt, Director

January 3, 2014

Mr. Ken Garoutte  
Manager – Safety, Health, Environment and Quality  
Cameco Resources, Inc.  
PO Box 1210  
Glenrock, WY 82637

**Subject: Approval of Non-Significant Revision (NSR), TFN 5 1/330, Restoration Research Proposal, Mine Unit 4, HH-4-6, Permit 633, Cameco Resources, Change No. 53**

Dear Mr. Garoutte:

This letter serves as the Land Quality Division's (LQD) approval for the above referenced NSR to the permit to include a plan for restoration research to be conducted in Mine Unit 4. The submittal has been reviewed by LQD staff and found to be acceptable.

LQD will insert the approved pages into the permit document according to the Index of Changes and track the revision as **Change Number 53**.

If you have any questions, please contact me at [pam.rothwell@wyo.gov](mailto:pam.rothwell@wyo.gov) or 777-7048.

Sincerely,

Pam Rothwell  
District 1 Assistant Supervisor  
Professional Geologist  
Land Quality Division

Enclosure

cc: Cameco Resources, Cheyenne  
Doug Mandeville, NRC  
Ramona Christensen, LQD

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APPROVAL OF TFN 5 1/330, RESTORATION RESEARCH PROJECTS  
PERMIT 633, CAMECO RESOURCES (CR)

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**INTRODUCTION**

The Land Quality Division (LQD) received changes to the application on November 8, 2013 that were agreed upon during a meeting with CR on September 10, 2013. CR has included a discussion of the research objectives in the permit restoration plan (Section 6.1.9) with details of the monitoring schedule throughout the project. The restoration plan also includes a reference to *Volume V- Research/Investigation Projects*. All concerns described in the remaining comments have been addressed. The research project is recommended for approval. The LQD looks forward to follow-up correspondence regarding the results of the test. It is requested that future annual reports include a section that reports the status of the research projects.

**COMMENTS**

- 13 Response Acceptable. CR was required to commit to sample the monitor wells in the HH-4-6 area at the current mining monitoring schedule (twice monthly). Section 2.1.6 of proposal has been corrected to state that the twice a month sampling frequency will be continued until CR submits a written request to change the monitoring frequency. (SI)
20. Response Acceptable. CR has committed to using groundwater sweep or reverse osmosis if the water quality has been significantly impacted. In a conference call with Paul Reimus from Los Alamos he indicated that reverse osmosis should remove most of the the residual tracer. (SI)
- 26 Response Acceptable. The proposal will be inserted into a new Volume V- Research/Investigation Projects. (SI)