



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

Department of Environmental  
Conservation

DIVISION OF SPILL PREVENTION & RESPONSE  
Contaminated Sites Program

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**DEC 26 2012**

**Anchorage Field Office**

File No. 2404.38.014

December 21, 2012

Mr. Larry Beck  
Bureau of Land Management  
4700 BLM Road  
Anchorage, Alaska 99507

Re: *Final Engineering Evaluation/ Cost Analysis Report*  
Kolmakof Mine, Napaimute, Alaska

Dear Mr. Beck:

The Alaska Department of Environmental Conservation (DEC) has received and reviewed the *Final Engineering Evaluation/ Cost Analysis (EE/CA) Report* for the Kolmakof Mine site, prepared by AMEC Environmental and Infrastructure, and dated December 5, 2012.

The *EE/CA* documents fieldwork activities which were conducted in 2008 and 2011. Sample results show that elevated concentrations of diesel-range organics, mercury, arsenic, chromium, and nickel are present in the soil. A background study to determine naturally-occurring concentrations of mercury, arsenic, chromium and nickel was conducted. Streamlined risk assessments for both human and ecological receptors were conducted and the risk to humans was determined to exceed the DEC regulatory threshold of  $1 \times 10^{-5}$ . Four (4) removal action alternatives were evaluated: 1) no action, 2) excavation and on-site consolidation of soil and debris in a repository, 3) excavation and off-site disposal of soil and on-site consolidation of debris in a monofill, and 4) excavation and off-site disposal of soil and debris. Alternative 4, excavation and off-site disposal of soil and debris, was selected as the preferred removal alternative.

The *Final Engineering Evaluation/ Cost Analysis Report* dated December 2012 satisfactorily addresses DEC comments made on the draft version of this document. DEC hereby approves this report in accordance with 18 Alaska Administrative Code (AAC) 75.335(d). Cleanup levels derived from DEC's method two cleanup levels and the site-specific background study, as listed in Tables 14 and 15 of the *EE/CA*, are approved in accordance with 18 AAC 75.340(d) and .340(h)(1). DEC concurs with the preferred alternative.

We look forward to continuing to work with you on this project. Please let me know if you have any questions regarding this site.

Sincerely,



Anne Marie Palmieri  
Environmental Program Specialist

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