

# STATE OF ALASKA

SEAN PARNELL, GOVERNOR

**DEPT. OF ENVIRONMENTAL CONSERVATION**  
**DIVISION OF SPILL PREVENTION AND RESPONSE**  
**CONTAMINATED SITES PROGRAM**

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File: 2601.38.041  
Return Receipt Requested  
Article No: 7008 1830 0002 6349 4029

February 4, 2010

Jennifer Richcreek  
Kodiak Electric Association  
515 East Marine Way  
P.O. Box 787  
Kodiak, AK 99615

Re: Decision Document: Kizhuyak Bay Stockpile  
Cleanup Complete Determination

Dear Ms. Richcreek:

The Alaska Department of Environmental Conservation (ADEC), Contaminated Sites Program, has completed review of the environmental records associated with the Kizhuyak Bay Stockpile. Based on the information provided to date, the ADEC has determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment, and this site will be closed.

This decision is based on the administrative record for the Kizhuyak Bay Stockpile, which is located in the offices of the ADEC in Anchorage, Alaska. This letter summarizes the decision process used to determine the environmental status of this site and provides a summary of the regulatory issues considered in the Cleanup Complete Determination.

## **Introduction**

### Site Name and Location:

Kizhuyak Bay Stockpile  
Southwest Head of Kizhuyak Bay  
Kodiak, Alaska

### Name and Mailing Address of Contact Party:

Jennifer Richcreek  
Kodiak Electric Association  
515 East Marine Way  
P.O. Box 787  
Kodiak, AK 99615

**ADEC Site Identifiers:**

ADEC Reckey: 2001250126201

File #: 2601.38.041

Hazard ID: 3790

**Regulatory authority under which the site is being cleaned up:**

18 AAC 75

**Background**

On September 19, 2001, while awaiting shipment from the Kizhuyak Bay Jetty, 20 gallons of diesel fuel spilled from a storage tank into the surrounding soil.

**Contaminants of Concern**

During the various investigations at this site, water and soil samples were analyzed for: diesel range organics (DRO); gasoline range organics (GRO); and benzene, toluene, ethylbenzene, and xylenes (BTEX). The following Contaminant of Concern was identified:

- Diesel Range Organics (DRO)

**Cleanup Levels**

The default soil cleanup levels for this site are established in 18 AAC 75.341, Method Two, Tables B1 and B2, Over 40 Inch Zone, Migration to Groundwater.

<u>Contaminant</u>	<u>Site Cleanup Level (mg/kg)</u>
Diesel Range Organics (DRO)	230

**Site Characterization and Cleanup Actions**

In 2001, 75 cubic yards of visually contaminated soil was excavated to a depth of 11 feet below ground surface (bgs) and stockpiled onsite. Five soil samples and two groundwater samples collected, from the sidewalls and from the bottom of the excavation respectively, did not contain detectable concentrations of contaminants. Two soil samples collected from the excavated soil stockpile contained detectable concentrations of DRO, but below ADEC cleanup levels.

The onsite stockpile was sampled again in 2003 and in 2009. Five soil samples collected in 2003 contained DRO up to 3,520 mg/kg. Five soil samples collected in 2009 contained DRO up to 248 mg/kg. Per ADEC approval, the onsite stockpile was land spread 6 inches deep and greater than 100 feet from Kizhuyak Bay.

**Pathway Evaluation**

Following investigation and cleanup at the site, exposure to the remaining contaminants was evaluated using ADEC's Exposure Tracking Model (ETM). Exposure pathways are the conduits by which contamination may reach human or ecological receptors. ETM results show all pathways to be one of the following: De Minimis Exposure, Exposure Controlled, or Pathway Incomplete. A summary of this pathway evaluation is included in Table 1.

<b>Pathway</b>	<b>Result</b>	<b>Explanation</b>
Surface Soil Contact	De Minimis Exposure	The soil stockpile may have been land spread on site, but remaining levels of contamination are below direct contact cleanup levels.
Sub-Surface Soil Contact	Pathway Incomplete	Subsurface soil samples collected did not contain detectable levels of contaminants.
Inhalation – Outdoor Air	De-minimis exposure	Contamination remains in the land spread stockpile, but is below inhalation cleanup levels.
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	There are no buildings at the site and any remaining contamination is below inhalation cleanup levels.
Groundwater Ingestion	De-minimis exposure	Contamination remains in the land spread stockpile just above migration to groundwater cleanup levels, but is considered de minimis. The source area for the 2001 spill has been removed. It is assumed volatilization and natural bioremediation have further reduced exposure to this pathway evident by the most recent sampling event in 2009.
Surface Water Ingestion	Pathway Incomplete	The land spread stockpile is located more than 100 feet from the Kizhuyak Bay. Therefore the pathway for water runoff is considered incomplete.
Wild Foods Ingestion	Pathway Incomplete	Contaminants of concern do not have the potential to bioaccumulate in plants or animals.
Exposure to Ecological Receptors	De-minimis exposure	The soil stockpile may have been land spread on site, but remaining levels of contamination are below direct contact cleanup levels. Any exposure to ecological receptors is considered de minimis.

Notes to Table 1: “De-minimis exposure” means that in ADEC’s judgment receptors are unlikely to be affected by the minimal volume of remaining contamination. “Pathway incomplete” means that in ADEC’s judgment contamination has no potential to contact receptors. “Exposure controlled” means there is an administrative mechanism in place limiting land or groundwater use, or a physical barrier in place that deters contact with residual contamination.

### **ADEC Decision**

The cleanup actions to date have served to excavate and adequately remove contaminated soil from the site. Based on the information available, ADEC has determined no further assessment or cleanup action is required. There is no longer a risk to human health or the environment and the site will be designated as Cleanup Complete on the Department's database.

Although a Cleanup Complete determination has been granted, ADEC approval is required for off-site soil disposal in accordance with 18 AAC 75.325(i). It should be noted that movement or use of potentially contaminated soil in a manner that results in a violation of 18 AAC 70 water quality standards is unlawful.

This determination is in accordance with 18 AAC 75.380(d) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.


**Appeal**

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 -18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 15 days after receiving the department's decision reviewable under this section. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 30 days after the date of issuance of this letter, or within 30 days after the department issues a final decision under 18 AAC 15.185. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have questions about this closure decision, please contact the ADEC Project Manager, Grant Lidren at (907) 269-8685.

Approved By,

Recommended By,



Linda Nuechterlein  
Environmental Manager



Grant Lidren  
Environmental Specialist

cc: Al Vezey, Lakloey, Inc.  
Stan Sieckowski, Four Dam Pool Power Agency