

STATE OF ALASKA

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

SARAH PALIN, GOVERNOR

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File: 2332.38.032

July 17, 2009

Dorene Lorenz
P.O. Box 2533
Seward, Alaska 99664

Re: Record of Decision (ROD); Nash Road Burn Site
Corrective Action Complete Determination

Dear Ms. Lorenz:

The Alaska Department of Environmental Conservation (ADEC), Contaminated Sites Program has completed a review of the environmental records associated with the Nash Road Burn Site located at mile 1.5 Nash Road, Seward, Alaska. 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 Nash Road Burn Site, 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:

Nash Road Burn Site
Mile 1.5 Nash Road
Seward, Alaska

Name and Mailing Address of Contact Party:

Dorene Lorenz
P.O. Box 2533
Seward, Alaska 99664

Database Record Key and File Number:

Reckey Number: 2001230932801
File: 2332.38.032
Hazard ID: 4300

Regulatory authority under which the site is being cleaned up:

18 AAC 75

Background

An open burn took place on this site during 2001 on November 23 and 24. The open burn occurred because the property owner, Ms. Lorenz, wanted to remove abandoned vehicles, a mobile home, a Quonset hut and various debris that were present when she bought the property (Lots 43, 44, and 45) earlier in 2001. Ms. Lorenz hired a contractor to conduct the burn activity which produced an ashen plume. It is believed that the ashen plume contained particulate matter that was laden with lead because elevated concentrations of lead were found in shallow soil samples on an adjacent property (Lot 46).

In 2002, the United States Environmental Protection Agency (USEPA) investigated this site as a result of a citizen complaint and lead contaminated soil. It was determined that the site was eligible for the Federal Superfund Program, and the EPA assisted in the cleanup process. The ADEC Prevention and Emergency Response Program (PERP) was also involved in monitoring the initial cleanup of Lots 43, 44, and 45.

In January of 2002 blood samples were collected from two adult residents and five dogs at Lot 46. Blood sample results for lead and cadmium were well below levels of concern. The Department of Health and Social Services (DHSS), Division of Epidemiology reported in a letter dated March 6, 2002 that "No significant human or animal exposure appears to have occurred following exposure to the smoke and ash from the fire, and no medical treatment of the people or dogs is indicated. No additional testing of people or dogs is indicated at this time."

A "No Further Action" letter dated January 28, 2004 was issued by the EPA after samples from the burn areas showed levels of lead to be below the State and Federal cleanup requirement of 400 mg/kg.

The ADEC PERP staff transferred the site to the ADEC Contaminated Site (CS) Program in August 2006 for continued monitoring of the remaining stockpile. Later in 2006 the stockpile was removed by the EPA. However, it was not until 2009 that Contaminated Site Program (CSP) staff were able to confirm that the stockpile had been removed by the EPA.

Contaminant of Concern

During the course of investigation at this site groundwater, soil and sediment samples were collected and tested for the EPA Target Analyte List (TAL) of metals; gasoline range organics (GRO); benzene, toluene, ethylbenzene, and xylenes (BTEX), and semivolatile organic compounds (SVOCs). Based on these analyses and knowledge of the contaminant source, the following Contaminant of Concern was identified:

- Lead

Cleanup Levels

The default soil cleanup levels for this site are established in 18 AAC 75.341, Method Two, Table B1:

<u>Contaminant</u>	<u>Site Cleanup Level (mg/kg)</u>
Lead	400

The default groundwater cleanup levels for this site are established in 18 AAC 75.345, Table C:

<u>Contaminant</u>	<u>Site Cleanup Level (mg/L)</u>
Lead	0.015

Cleanup Activities

In June 2002 the EPA contracted with Ecology & Environment, Inc. (E & E) to investigate the soil and groundwater on Lots 43, 44, 45, and 46 at mile 1.5 Nash Road. E&E reported lead concentrations in confirmation soil samples up to 6,650 milligrams per kilogram (mg/kg) in the surface soil at the burn site on Lot 44 and up to 72,900 mg/kg in the surface soil at the burn site on Lot 45. No soil analysis was performed on Lot 43. Lead was found up to 865 mg/kg in the surface soil on Lot 46. The analysis of ash found in the gutters of the house on Lot 46 showed lead up to 6,200 mg/kg in the sieved prepared samples.

Groundwater sampled in June 2002 by E&E, from a shallow well on Lot 43, showed lead at 88.2 micrograms per liter (ug/L). It is speculated that this result was possibly due to improper purging of the well. Groundwater was also sampled in the well on Lot 45 and showed lead at 2.63 ug/L. The well on Lot 46 had lead at 1.24 ug/L in November 2002.

In September 2002 Montauk Environmental Engineering sampled the stockpiles, two sites where batteries were removed, and the two burn sites on the Lorenz property. Confirmation soil samples showed that all areas were below the cleanup levels for lead except the stockpiles. During the site cleanup that took place in 2002, approximately eight cubic yards of surface soil were excavated. The surface soil was stockpiled on site using a liner.

In June 2003 when the EPA START-2 sampling event took place on Lot 43, the groundwater concentration of lead was below the detection limit of 5.0 ug/L. No soil samples were taken from Lots 43, 44, or 45 in 2003 because access was denied. Soil samples taken in 2003 on Lot 46 showed lead concentrations up to 112 mg/kg. No petroleum constituents were detected on Lot 46.

Additional soil was added to the stockpile between 2003 and 2006 totaling approximately 32 cubic yards. In 2006 the EPA coordinated the stockpile removal and transport to an appropriate remediation facility. This removal action by EPA was confirmed by Matt Carr, in June 2009.

Pathway Evaluation

The exposure pathways for human health that were evaluated include the following: direct contact with soil, inhalation of indoor and outdoor air; and ingestion of groundwater. These

pathways may be complete but the remaining contaminant concentrations do not exceed the most conservative Method Two, Table B1 Soil Cleanup levels and Table C Groundwater Cleanup levels established in 18 AAC 75.341.

The exposure pathway analysis above was supported by the most recent ADEC Exposure Tracking Model (ETM) ranking. The ETM results showed all pathways to be De Minimis Exposure, Exposure Controlled, or Pathway Incomplete.

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 this site will be designated as closed 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.

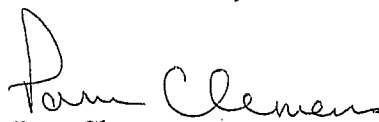
This determination is in accordance with 18 AAC 75.380(d) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

Appeal

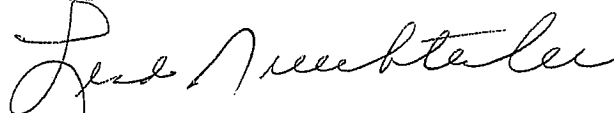
Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 -18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, 410 Willoughby Avenue, 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, Pam Clemens, at (907) 269-7551.

Recommended By,


Pam Clemens
Environmental Specialist

Approved By,


Linda Nuechterlein
Environmental Manager

CC: Matt Carr, EPA On-Scene Coordinator, Anchorage Office