

STATE OF ALASKA

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

SEAN PARNELL, GOVERNOR

555 Cordova Street
Anchorage, AK 99501
PHONE: (907) 269-7551
FAX: (907) 269-7649
www.dec.state.ak.us

File: 2211.26.002

Return Receipt Requested

Article No. 7008 1830 0002 6349 3282

November 24, 2009

Mr. Raymond Vroble
140 Eagle Street #201
Anchorage, AK 99501

Re: Decision Document; Strelna Roadhouse
Corrective Action Complete Determination with Institutional Controls

Dear Mr. Vroble:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Strelna Roadhouse located at Chitina, Alaska. Based on the information provided to date, it has been determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment and no further remedial action will be required as long as the site is in compliance with established institutional controls.

This decision is based on the administrative record for the Strelna Roadhouse 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 Corrective Action Complete Determination with Institutional Controls.

Introduction

Site Name and Location:

Strelna Roadhouse
Mile 15 McCarthy Road
Chitina, Alaska 99566

Name and Mailing Address of Contact Party:

Mr. Raymond Vroble
140 Eagle Street #201
Anchorage, AK 99501

Database Record Key and File Number:

ADEC Reckey: 1990240033201

File: 2211.26.002

Hazard ID: 23279

Regulatory authority under which the site is being cleaned up:

18 AAC 75 and 18 AAC 78

Background

This site has been impacted by leaks and spills from two unregistered underground storage tanks (USTs) that contained gasoline. The tanks measured 45.5 inches in diameter and were 12 feet long. Approximately one-third of each tank was buried underground. The tanks were removed from the site in the summer of 1992. Soil samples collected at this site were tested for total petroleum hydrocarbons (TPH). TPH is equivalent to gasoline range organics (GRO) and diesel range organics (DRO) combined.

Site Characterization and Cleanup Actions

Prior to the removal of the two unregulated USTs, two pumps, and the associated piping; soil sampling was conducted October 21, 1990 by M - B Engineers & Surveyors of Gakona, Alaska. Seven soil samples from four test holes were sent to Northern Testing Laboratories for analysis. Northern Testing Laboratories reported that only one of the four test holes showed TPH above the cleanup criteria of 100 mg/kg.

The results from test hole 3 (sample A) showed TPH to be 1,940 mg/kg at two feet below the bottom on the tank. Test hole 3 (sample B) showed TPH at 1,980 mg/kg at three and one half feet below the bottom of the tank. Test hole 3 was approximately two and one half feet away from the pumps horizontally. Northern Testing Laboratories stated in their report that they "suspect this is the area in which vehicles are fueled and the contamination is the result of fuel over fill running onto the ground." All other sample results were less than 25 mg/kg.

After receipt of the Northern Testing Laboratories data, the owner at that time removed approximately 1 cubic yard of soil from the area of test hole 3 and placed it in a treatment cell for remediation. After consulting with staff from the ADEC office in Valdez, Alaska, fertilizer was applied to the soil in the treatment cell and that soil was tilled monthly during the summers of 1992 and 1993. It is not documented when the soil contained in the treatment cell was removed. The treatment cell and its contents were not visible on site when the current owner, Mr. Vroble, walked around the property in the summer of 2009. Mr. Vroble saw no soil staining or stressed vegetation on the property at that time.

Contaminants of Concern

Total Petroleum Hydrocarbons (TPH) which is equivalent to:

- Gasoline Range Organics (GRO)
- Diesel Range Organics (DRO)

Cleanup Levels

The default soil cleanup levels for this site are established in 18 AAC 75.341, Method Two, Table B2 Under 40 inch Zone, Migration to Groundwater

<u>Contaminant</u>	<u>Site Cleanup Level (mg/kg)</u>
• Gasoline Range Organics (GRO)	300
• Diesel Range Organics (DRO)	250

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.

Contamination remains in the subsurface soil above migration to groundwater cleanup levels at 3.5 feet below the bottom of the tanks, and approximately 2.5 feet from the pumps horizontally. However groundwater was not encountered during the investigations and remaining contamination is assumed to be De-minimis.

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.

Table 1 – Exposure Tracking Model Results

Pathway	Result	Explanation
Surface Soil Contact	De Minimis Exposure	The soil stockpile has been land spread on-site, and remaining levels of contamination are below health based cleanup levels for direct contact.
Sub-Surface Soil Contact	De Minimis Exposure	Contamination remains in the subsurface, but is below health based cleanup levels for direct contact.
Inhalation – Outdoor Air	De Minimis Exposure	Contamination remains in the subsurface, but is below health based cleanup levels for inhalation at this site.
Inhalation – Indoor Air (vapor intrusion)	De Minimis Exposure	There are buildings at the site but they are more than 100 feet away from the area that was contaminated by this release.
Groundwater Ingestion	Pathway Incomplete	Contamination remains in the subsurface soil above migration to groundwater cleanup levels at 3.5 feet bgs. Groundwater was not encountered during the investigation. It is reported that residents get their water from a spring near Silver Lake, approximately four miles from this site.
Surface Water Ingestion	Pathway Incomplete	There is no surface water located within ¼ mile of the site.
Wild Foods Ingestion	Pathway Incomplete	Contaminants of concern do not have the potential to bioaccumulate in plants or animals.

Exposure to Ecological Receptors	Pathway Incomplete	Remaining levels of contamination are well 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 ADEC has determined there is no unacceptable risk to human health or the environment, and this site will be granted a Corrective Action Complete Determination with Institutional Controls subject to the following:

1. A Notice of Environmental Contamination (NEC) will be filed with the Valdez Recorder's office for the Chitina area that identifies the nature and extent of contamination at the property, and any conditions that the owners and operators are subject to in accordance with this decision document.
2. Any future change in land use may impact the exposure assumptions cited in this document. If land use and/or ownership changes, current Institutional Controls (ICs) may not be protective and ADEC may require additional remediation and/or ICs. Therefore Mr. Vroble shall report to ADEC every five years to document land use, or report as soon as Mr. Vroble becomes aware of any change in land ownership and/or use, if earlier. **The report can be sent to the local ADEC office or electronically to DEC.ICUnit@alaska.gov.**
3. Installation of groundwater wells will require approval from ADEC.
4. Any proposal to transport soil or groundwater off site requires ADEC approval in accordance with 18 AAC 78.600(h). A "site" [as defined by 18 AAC 75.990 (115)] means an area that is contaminated, including areas contaminated by the migration of hazardous substances from a source area, regardless of property ownership. (See attached site figure.)
5. Movement or use of contaminated material in a manner that results in a violation of 18 AAC 70 water quality standards is prohibited.

The ADEC Contaminated Sites Database will be updated to reflect the change in site status as detailed above, and will include a description of the contamination remaining at the site. When the site meets the requirements for a Cleanup Complete determination, then the Institutional Controls will be terminated.

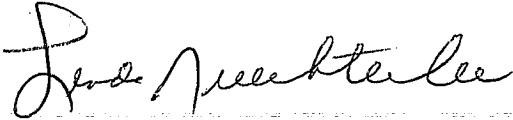
This determination is in accordance with 18 AAC 78.276(f) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

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.

Please sign and return *Attachment A* to ADEC within 30 days of receipt of this letter. If you have questions about this closure decision, please contact the ADEC project manager, Pam Clemens, at 907-269-7551.

Approved by,



Linda Nuechterlein
Environmental Manager

Recommended by,



Pam Clemens
Environmental Program Specialist

Attachment A: Corrective Action Complete with ICs Agreement Signature Page

Attachment B: Site Figure

Attachment A: Cleanup Complete-ICs Agreement and Signature Page*

Mr. Raymond Vroble agrees to the terms of this Corrective Action Complete with Institutional Controls determination as stated in this Closure Decision Document dated **November 24, 2009** for the Strelna Roadhouse. Failure to comply with the terms of this agreement may result in ADEC reopening this site and requiring further remedial action in accordance with 18 AAC 78.276(f).

Signature of Mr. Raymond Vroble, or Authorized Representative, Title
Strelna Roadhouse

Printed Mr. Raymond Vroble, or Authorized Representative, Title
Strelna Roadhouse

ADEC File No.: 2211.26.002
Hazard ID: 23279
ADEC Project Manager: Pam Clemens

***Attention ADEC Administration Staff:** Please follow the procedure below after Attachment A is signed/returned to ADEC.

1. Log-in and Date Stamp *Attachment A*
2. Scan and Save to the appropriate electronic folder on the network Drive
3. File the hard copy in the appropriate project/site file and Staff Correspondence Folder(s)
4. Provide the Correspondence Folder (with the filed *Attachment A* hard copy) to the ADEC Project Manager so that the Project Manager can update the CS database.

Attachment B Site Figure

(Plat Map 87-8) Chitina, Alaska

