



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

Department of
Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE
Contaminated Sites Program

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File: 2265.38.036

November 25, 2013

Mr. Matt Breshears
P.O. Box 874407
Wasilla, AK. 99687-4407

Re: Decision Document; Allied Automotive Mechanics
Cleanup Complete Determination

Dear Mr. Breshears;

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the site known as Allied Automotive Mechanics located at 1751 South Audie Street in Wasilla, 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 this site will be closed.

This decision is based on the administrative record for Allied Automotive Mechanics 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:

Allied Automotive Mechanics
Lot 5, Block 4 Wilderness East Subdivision
1751 South Audie Street
Wasilla, AK

Name and Mailing Address of Contact Party:

Mr. Matt Breshears
P.O. Box 874407
Wasilla, AK. 99687-4407

ADEC Site Identifiers

File: 2265.38.036
Hazard ID: 306

Regulatory authority under which the site is
being cleaned up:

18 AAC 75

Background

The source of contamination at this site was a former floor drain that discharged to the subsurface through a perforated pipe six inches below ground surface on the north side of the building. This area was excavated in 1992 and at some point thereafter, the floor drain was filled with concrete and new concrete slab was poured on top of the original one containing the floor drain.

The former floor drain discharged to a drain field that is categorized as a Class V Motor Vehicle Waste Underground Injection Control (UIC) well by the Environmental Protection Agency (EPA) and is tracked under the EPA UIC ID AK170P5-13-10314. According to the UIC file, the UIC program received information from Allied Automotive in 2002 that the injection well is closed.

Contaminants of Concern

During the investigations at this site, soil samples were analyzed for total petroleum hydrocarbons (TPH), diesel range organics (DRO, reported as extractable petroleum hydrocarbons (EPH) in the 1992 report), gasoline range organics (GRO, reported as volatile petroleum hydrocarbons (VPH) in the 1992 report), glycols, polychlorinated biphenyls (PCBs), metals and volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX). Based on these analyses and knowledge of the source area, the following contaminants of concern was identified in soil:

- DRO
- Tetrachloroethylene (PCE)

Cleanup Levels

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

<u>Contaminant</u>	<u>Site Cleanup Level (mg/kg)</u>
• DRO	250
• PCE	0.024

Site Characterization and Cleanup Activities

The drain field was excavated to a depth of 3 feet below ground surface (bgs) in September 1992. A sample collected one foot below the discharge pipe contained total petroleum hydrocarbons at 6,190 mg/kg and PCE at 0.261 mg/kg. Additional excavation was then conducted to 12 feet bgs. Confirmation sample S4 collected from the bottom of the excavation contained TPH at 4,290 mg/kg and EPH at 3,810 mg/kg. The samples were not analyzed for PCE or other volatile compounds. The excavation was backfilled with clean fill and approximately 35 cubic yards of contaminated soil were stockpiled on a liner.

To evaluate contamination remaining at the site, one borehole was placed in the same location as 1992 sample S4 and soil samples were collected at 14-15 feet bgs and again at 20.5 to 21.5 feet bgs. The sample from 14-15 feet bgs contained PCE at 0.0285 mg/kg. DRO was not detected. The sample from 20.5 to 21.5 feet bgs did not contain detectable concentrations of contaminants.

The disposition of the 35 cy stockpile is not known, however the stockpile was reportedly disposed of offsite in the 1990's. A new drinking water well was installed at the site in 2012 and completed at a depth of 233 feet bgs with a static water level of 49 feet bgs.

Cumulative Risk Calculation

Pursuant to 18 AAC 75.325(g), when detectable contamination remains on-site following a cleanup, a cumulative risk determination must be made that the risk from hazardous substances does not exceed a cumulative carcinogenic risk standard of 1 in 100,000 across all exposure pathways and does not exceed a cumulative noncarcinogenic risk standard at a hazard index of one across all exposure pathways.

Based on a review of the environmental record, ADEC has determined that residual contaminant concentrations do not pose a cumulative human health risk.

Exposure 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.

Table 1 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	Pathway Incomplete	Contamination is not present in surface soil at this source area.
Sub-Surface Soil Contact	De Minimis Exposure	The remaining contamination in the subsurface is considered de minimis in volume, is not present at concentrations above direct contact cleanup levels and is covered by clean fill.
Inhalation – Outdoor Air	De Minimis Exposure	Contaminant concentrations are below inhalation cleanup levels and the remaining contaminated soil is covered by clean fill
Inhalation – Indoor Air (vapor intrusion)	De Minimis Exposure	Contaminant concentrations are below inhalation cleanup levels and the remaining contaminated soil is covered by clean fill
Groundwater Ingestion	Pathway Incomplete	Although groundwater may potentially be used as a drinking water source at this site, contaminants were not detected in soil below approximately 15 feet bgs whereas the onsite drinking water well is screened from 228 to 233 feet bgs.
Surface Water Ingestion	Pathway Incomplete	Surface water is not used as a drinking water source in this area.
Wild Foods Ingestion	Pathway Incomplete	Wild foods are not collected in this area.
Exposure to Ecological Receptors	Pathway Incomplete	Ecological receptors are not present at this site.

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

Remaining petroleum contamination in soil is below approved cleanup levels. This site will receive a "Closed" designation on the Contaminated Sites Database, subject to the following standard conditions.

Standard Conditions

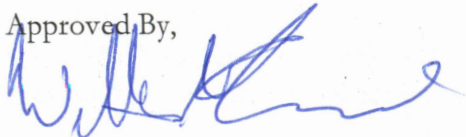
1. Any proposal to transport soil or groundwater off-site requires ADEC approval in accordance with 18 AAC 78.600(h). A "site" [as defined by 18 AAC 75.990 (115)] means an area that is contaminated, including areas contaminated by the migration of hazardous substances from a source area, regardless of property ownership. (See attached site figure.)
2. Movement or use of contaminated material in a manner that results in a violation of 18 AAC 70 water quality standards is prohibited.

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 ADEC Project Manager Bill O'Connell at (907) 269-3057.

Approved By,



Bill O'Connell
Environmental Program Manager

Cc: Jennifer Parker, EPA Region X Groundwater Program