



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

Department of
Environmental Conservation

DIVISION OF SPILL PREVENTION AND RESPONSE
Contaminated Sites Program

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File: 2100.38.057

November 17, 2016

Terri Pauls
11600 Hideaway Trail
Anchorage, AK 99516

Re: Decision Document: Residence - 11600 Hideaway Trail
Cleanup Complete Determination

Dear Ms. Pauls:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the site Residence - 11600 Hideaway Trail located in Anchorage, 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 unless new information becomes available that indicates residual contaminants may pose an unacceptable risk.

This Cleanup Complete determination is based on the administrative record for the site Residence - 11600 Hideaway Trail which is located in the ADEC office in Anchorage, Alaska. This decision letter summarizes the site history, cleanup actions and levels, and standard site closure conditions that apply.

Site Name and Location:

Residence - 11600 Hideaway Trail
11600 Hideaway Trail
Anchorage, AK 99516

Name and Mailing Address of Contact Party:

Ms. Terri Pauls
11600 Hideaway Trail
Anchorage, AK 99516

DEC Site Identifiers:

File No.: 2100.38.057
Hazard ID.: 3910

Regulatory Authority for Determination:

18 AAC 75

Site Description and Background

Petroleum contamination was detected in the drinking water well at this residence in 2002. A search of the property and properties in the vicinity failed to locate a source for the contamination.

Contaminants of Concern

During the site investigation activities at this site, samples were collected from soil and groundwater and analyzed for diesel range organics (DRO), gasoline range organics (GRO), benzene, toluene, ethylbenzene,

and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs). Based on these analyses, the following contaminants were detected above the applicable cleanup levels and are considered Contaminants of Concern at this site:

- Diesel Range Organics (DRO)

Cleanup Levels

Applicable soil cleanup levels are found in 18 AAC 75.341 Tables B1 and B2 for the migration to groundwater pathway, groundwater cleanup levels are found in 18 AAC 75.345 Table C as noted in Table 1 below.

Table 1 – Approved Cleanup Levels

Contaminant	Soil (mg/kg)	Groundwater (mg/L)
DRO	250	1.5

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Characterization and Cleanup Activities

The owner of 11600 Hideaway Trail noticed a petroleum odor in water from her well in July, 2002. A sample from the well contained DRO at 6.0 mg/l. The source of contamination was unknown. The well was grouted and purged and all additional samples collected afterwards did not contain detectable concentrations of contaminants.

In September, 2016, a site investigation was conducted to evaluate the potential source of contamination and document current contaminant concentrations. Four soil borings were advanced and sampled around the property and three of the borings were completed as monitoring wells. Contaminants were not detected above cleanup levels in soil. A groundwater sample collected from upgradient well MW3 contained toluene at 1.64 ug/l, below the cleanup level of 1,100 ug/l. No other contaminants were detected in groundwater.

A sample from the onsite drinking water well collected in November, 2016 did not contain detectable concentrations of contaminants. The monitoring wells were decommissioned in November, 2016.

Cumulative Risk Evaluation

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 meet the human health cumulative risk criteria for residential land use.

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 2.

Table 2 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	Pathway Incomplete	Contaminants are not present in surface soil (0 to 2 feet below ground surface)
Sub-Surface Soil Contact	Pathway Incomplete	Contaminants are not present in sub surface soil
Inhalation – Outdoor Air	Pathway Incomplete	Contaminants are not present above inhalation cleanup levels
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	Contaminants capable of causing risk via this pathway are not present at the site
Groundwater Ingestion	De-Minimis Exposure	Contaminants have not been detected in drinking water since the initial sampling event in 2002
Surface Water Ingestion	Pathway Incomplete	Surface water is not used as a drinking water source in the vicinity of the site
Wild and Farmed Foods Ingestion	Pathway Incomplete	Contaminants of concern do not have the potential to bioaccumulate in plants or animals
Exposure to Ecological Receptors	Pathway Incomplete	There are no complete exposure pathways to ecological receptors at the site

Notes to Table 2: “De-Minimis Exposure” means that in ADEC’s judgment receptors are unlikely to be adversely affected by the minimal volume or concentration of remaining contamination. “Pathway Incomplete” means that in ADEC’s judgment contamination has no potential to contact receptors. “Exposure Controlled” means there is an institutional control in place limiting land or groundwater use and there may be a physical barrier in place that prevents contact with residual contamination.

ADEC Decision

Contaminants are not present above the approved cleanup levels suitable for residential land use. This site will receive a “Cleanup Complete” 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 75.325(i). 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.
3. Groundwater throughout Alaska is protected for use as a water supply for drinking, culinary and food processing, agriculture including irrigation and stock watering, aquaculture, and industrial use. Contaminated site cleanup complete determinations are based on groundwater being considered a potential drinking water source. In the event that groundwater from this site is to be used for other

purposes in the future, such as aquaculture, additional testing and treatment may be required to ensure the water is suitable for its intended use.

This determination is in accordance with 18 AAC 75.380 and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that contaminants at this site may pose an unacceptable risk to human health, safety, or welfare or to 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, 555 Cordova Street, Anchorage, Alaska 99501-2617, 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, P.O. Box 111800, Juneau, Alaska 99811-1800, 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 feel free to contact me at (907) 269-3057, or email at bill.oconnell@alaska.gov.

Sincerely,



Bill O'Connell
Project Manager

cc: Spill Prevention and Response, Cost Recovery Unit