THE STATE
of ALASKA
GOVERNOR SEAN PARNELL

Department of
Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE
Contaminated Sites Program

555 Cordova Street
Anchorage, Alaska 99501
Phone: 907.269.7503
Fax: 907.269.7649
dec.alaska.gov

File No: 2612.38.007

October 2, 2013

Stephen Wilson
Crowley Maritime Corporation
201 Arctic Slope Avenue
Anchorage, Alaska 99518

Re: Decision Document; Crowley Fuel Station McGrath
Cleanup Complete Determination

Dear Mr. Wilson:

The Alaska Department of Environmental Conservation (ADEC) has reviewed the environmental records for the Crowley Fuel Station McGrath. This decision letter memorializes the site history, cleanup actions, and standard conditions for long-term site management. No further remedial action is required.

Site Name and Location:
Crowley Fuel Station McGrath
Near the intersection of Tonzona Ave. and Mespelt Ave.
McGrath, Alaska 99627

Name and Mailing Address of Contact
Stephen Wilson
Crowley Maritime Corporation
201 Arctic Slope Avenue
Kodiak, Alaska 99615

ADEC Site Identifiers:
File: 2612.38.007
Hazard ID: 25569

Regulatory Authority for Determination:
18 AAC 75

Background

In 2007 an estimated 20 gallon diesel fuel release occurred at the project site as a result of a vehicle leak. Soil characterization samples were collected following the excavation efforts which contained diesel range organics (DRO) concentrations up to 1,870 milligrams per kilogram (mg/kg). As a result, additional soil removal was conducted during July 2008. DRO was not detected in confirmation samples collected from the base of the excavation sidewalls.

However, a lens of discolored fill material was noted between two and five inches below ground surface in the west half of the excavation. The lens contained a hydrocarbon odor and an elevated photoionization detector (PID) reading of 268 parts per million by volume (ppmv). At the time, this lens was not evaluated further because it did not appear to be associated with the 2007 release. A site investigation was later conducted to delineate the vertical and lateral extent of the discolored soil observed in 2008 to determine if further corrective action was necessary.

The bulk fuel terminal is situated at the intersection of Apple Street and Mespelt Street in an industrial area in McGrath, Alaska. The U.S. Geological Survey McGrath D-6 quadrangle locates the site in the southeast ¼ of southeast ¼ of section7, township 33 north, range 33 west, Seward Meridian.

Contaminant of Concern

During the investigations at the site, soil samples were analyzed for the following: gasoline range organics (GRO); diesel range organics (DRO); residual range organics (RRO); polycyclic aromatic hydrocarbons (PAHs); and the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and xylenes (BTEX). Based on these analyses and knowledge of the source area, no contaminants of concern (COC) were identified in soil

Site Characterization

Site Characterization conducted under the regulatory authority of the Contaminated Sites Program (CSP) began in 2013. Eleven soil borings were advanced to a depth of 0.5 to 2 feet below ground surface. A discolored soil lens was encountered in the seven borings: B1, B2, B4, B5, B7, B8, and B9. No discolored soil lens was encountered from the four soil borings (B3, B6, B10 and B11) which were "stepped out" from the initial borings. Seven soil samples collected from B1, B3, B5, B6, and B10; did not contain petroleum constituents above ADEC cleanup levels.

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 do not pose a cumulative human health risk.

Exposure Pathway Evaluation

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

Table 2 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	De Minimis Exposure	Surface soil samples collected were below direct contact and ingestion cleanup levels. Exposure through this pathway is considered insignificant.
Sub-Surface Soil Contact	De Minimis Exposure	Surface soil samples collected were below direct contact and ingestion cleanup levels. Exposure through this pathway is considered insignificant.
Inhalation – Outdoor Air	De Minimis Exposure	The remaining petroleum constituents are below inhalation cleanup levels. Therefore risk via this pathway is considered insignificant.
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	There are no buildings on site. Exposure through this pathway is considered incomplete.
Groundwater Ingestion	Pathway Incomplete	Surface soil sample were below migration to groundwater cleanup levels and groundwater was not encountered. Therefore risk via this pathway is considered incomplete.
Surface Water Ingestion	Pathway Incomplete	Surface soil sample were below migration to groundwater cleanup levels and groundwater was not encountered. Therefore risk via this pathway is considered incomplete.
Wild Foods Ingestion	Pathway Incomplete	There are no complete exposure pathways to wild food ingestion at this site.
Exposure to Ecological Receptors	Pathway Incomplete	There are no complete exposure pathways to ecological receptors 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 ground water 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 Grant Lidren at (907) 269-8685.

Sincerely,

Grant Lidren
Environmental Program Specialist