2332.26.022

Exposure Tracking Model - Evaluation Summary

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Site Information:

Site: Wesleyan Care Center
Source: Historic USTs
Evaluation Date: 1/13/2009 12:53:41 PM
Initial/Updated: Updated

Results Summary:

Human Health Exposure Category: De Minimis Exposure
Controlling Pathway(s): Surface Soil, Subsurface Soil, Outdoor Inhalation
Score: 0

Ecological Site Exposure Category: Pathway Incomplete

Media of Concern: Surface Soil, Subsurface Soil
Other Site Concerns: None

by Paul Horwath 3-21-2017

Exposure Assessment:

Pathway	Exposure Categories: Initial Ranking 8/28/2008 9:43:14 AM	Exposure Categories: Updated Ranking 3/21/2017 6:05:03 PM
Direct Contact with Surface Soil:	Current Exposure	De Minimis Exposure
Direct Contact with Subsurface Soil:	Low Potential Exposure	De Minimis Exposure
Outdoor Air Inhalation:	Low Potential Exposure	De Minimis Exposure
Groundwater Ingestion:	Low Potential Exposure	Pathway Incomplete
Surface Water Ingestion:	Pathway Incomplete	Pathway Incomplete
Wild or Farmed Foods Ingestion:	Pathway Incomplete	Pathway Incomplete
Indoor Air Inhalation (Vapor Intrusion):	Pathway Incomplete	Pathway Incomplete
Other Human Health:	Pathway Incomplete	Pathway Incomplete
Ecological:	Pathway Incomplete	Pathway Incomplete

Initial Ranking Comments

Direct Contact With Surface Soil: (comments - page)
Confirmation soil samples taken, 2 feet bgs, underneath the vent risers near the wall of the building, contained 30,800 mg/kg DRO. Due to the building location, the contamination was left in place.

Direct Contact With Subsurface Soil: (comments - page)
Confirmation samples taken at the depth of the excavation at 11 feet bgs contained 774 mg/kg DRO, which is well below dirt ingestion levels.

Outdoor Air Inhalation: (comments - page)
DRO is the contaminate of concern, located in a discrete location near the wall of the building.

Groundwater Ingestion: (comments - page)
Water is supplied by nine wells, is treated and distributed throughout Seward. Highest contamination from historic leaky USTs is located at 2 feet bgs. It is assumed a bulk of the contaminated soil was removed, and 65 cubic yards are currently stockpiled on site. Groundwater was not encountered at 14 feet bgs.

Updated Ranking Comments

Direct Contact With Surface Soil: (comments - page)
Confirmation soil samples collected from 0-2.5 feet bgs, underneath the vent risers near the wall of the building, contained 1,710 mg/kg DRO. No contamination was detected at a depth from 5-7 feet bgs. The contamination was beneath the former vent pipe, located a distance of 40 feet from the former tanks. A reasonable presumption is that some overfilling of the tanks caused fuel to be discharged out the top of the vent pipes, and that spillage detected is de-minimis in quantity.

Direct Contact With Subsurface Soil: (comments - page)
Confirmation sample collected at the depth of 2.5-4.5 feet bgs contained 1,540 mg/kg DRO, which is below ADEC's human health-based cleanup levels.

Groundwater Ingestion: (comments - page)
Groundwater was not encountered at 22 feet bgs, the maximum depth of soil boring activities.

Indoor Air Inhalation (Vapor Intrusion): (comments - page)
Source of contamination was heating fuel, and residual concentrations of DRO are at ~1,500 mg/kg. Volatile chemicals were not detected in the final confirmation soil samples.