Silt Thickness at Soil Borings
- 0 - 2 feet
- 2 - 4 feet
- Greater than 4 feet

FHRA Property Boundary
Number in boring location marker is depth (ft) to contact between fine-grained soil and gravel.

Figure 41
SILT THICKNESS
North Pole Refinery
Flint Hills Resources Alaska, LLC
Figure 42
DEPTH TO TOP OF PERMAFROST
North Pole Refinery
Flint Hills Resources Alaska, LLC
Figure 44
THREE-DIMENSIONAL PERMAFROST
IMAGE SHOWING DETAIL IN THE
PLUME AREA (INSET)
North Pole Refinery
Flint Hills Resources Alaska LLC
Figure 45
SCATTER PLOT OF ESTIMATED HYDRAULIC CONDUCTIVITY BASED ON GRAIN SIZE DISTRIBUTIONS
North Pole Refinery
Flint Hills Resources Alaska, LLC
Figure 46
Groundwater Flux vs. Single Well Pump Testing Hydraulic Conductivity Estimates
North Pole Refinery
Flint Hills Resources Alaska, LLC
Figure 47
GROUNDWATER ELEVATIONS
AUGUST 17-21, 2009
North Pole Refinery
Flint Hills Resources Alaska, LLC

- Monitoring Well
- Observation Well
- Recovery Well
- Production Wells
- GVEA Injection Well (Approximate)
- GVEA Production Well (Approximate)
- FHRA Property Boundary

Groundwater Elevation Contours
Groundwater Elevation (feet MSL)
486.55
Figure 48
GROUNDWATER ELEVATION AND LNAPL THICKNESS AT MW-138
North Pole Refinery
Flint Hills Resources Alaska, LLC

MW-138 screened interval: 475.2 - 489.4 feet MSL
Figure 49
GROUNDWATER ELEVATION AND LNAPL THICKNESS AT R-20 AND R-20R
North Pole Refinery
Flint Hills Resources Alaska, LLC

R-20 screened interval: 463.0 - 488.1 feet MSL
R-20R screened interval: 475.2 - 491.1 feet MSL

Groundwater Elevation
LNAPL Thickness

- Groundwater Elevation
- LNAPL Thickness