



FLINT HILLS RESOURCES ALASKA, LLC
 NORTH POLE REFINERY, NORTH POLE, ALASKA
 FOURTH QUARTER 2012
 GROUNDWATER MONITORING REPORT
 ANALYTICAL RESULTS FOR SULFOLANE
 AT WATER TABLE

FIGURE
4-13

ARCADIS

[This map cropped by
 DEC and does not include
 inset area - the refinery.]

Legend

Sulfolane Results

- Monitoring Well
- Vertical Profile Transect Well
- Observation Well
- ⊕ Permafrost Boring
- - - Approximate Sulfolane Isopleth in µg/L
- ▭ FHRA Property Boundary

- 22.5 Sulfolane Concentration (µg/L)
- J Estimated concentration, detected above the detection limit (DL) and below the limit of quantitation (LOQ)
- J* Result is considered estimated (no direction of bias) due to QC failures (flag applied by SWI)
- < Not detected; detection limit listed

Notes:

Samples with duplicate data are represented by the greater of the two results.
 Sulfolane was analyzed by EPA Method 1625B with iso-dilution
 Image date: June 9, 2007

