

Site 4: Petroleum, Oil, and Lubricants (POL) Installation. Site 4 consists of the POL Installation and the area immediately around it. Four 25,000-gallon underground storage tanks at the site held jet fuel but have stored aviation gasoline in the past. A confirmed spill occurred in the mid-1960s during a fuel transfer between underground storage tanks. The fuel was observed flowing across the pavement and into a storm drain. Three additional fuel spills were reported in 1970, 1976, and 1980. These spills occurred when fuel was being pumped from an underground storage tank into tanker trucks.

Using U.S. EPA guidance, Preliminary Remediation Goals were developed for soil, sediment, and groundwater during the Site Investigation to determine potential threats to human health and the environment from residual contamination. The Site Investigation concluded surface soils at Site 4 may have been contaminated by past fueling activities and indicated a potential threat to human health and the environment might be present in the surface soils due to levels of organic compounds and metals found above Preliminary Remediation Goals. No organic or inorganic compounds in concentrations exceeding the Ohio Standards for Public Water Supplies were detected in two rounds of groundwater sampling at Site 4 groundwater monitoring wells. Data suggested contaminants contained within the soils had not migrated through the clay-rich till and had not adversely affected groundwater quality down gradient of Site 4.

A Remedial Investigation was performed to confirm or deny results of the Site Investigation. U.S. EPA Region IX Preliminary Remediation Goals were used to screen for Contaminants of Potential Concern. Arsenic was detected in soil samples above screening criteria and was identified as a Contaminant of Potential Concern at Site 4. During the first groundwater sampling event, antimony, arsenic, chromium, and lead were detected above screening criteria in samples collected from groundwater monitoring wells. For the Remedial Investigation, Contaminants of Potential Concern in the groundwater at Site 4 were determined to be antimony, arsenic, chromium, and lead.

During the Feasibility Study conducted at Site 4, it was determined the arsenic detected in the soil could be attributed to background concentrations; however, further investigation was recommended. Subsequent groundwater sampling events were conducted, and no contaminants were detected above Preliminary Remediation Goals or Applicable or Relevant Appropriate Requirements at Site 4. It was determined the metals concentrations detected in the groundwater samples collected during the Remedial Investigation first sampling event were associated with sedimentation in the samples. No Further Action was recommended for the groundwater at Site 4.

A Supplemental Remedial Investigation was conducted in 2003. Soil samples were obtained from four soil borings collected at Site 4 and analyzed for arsenic. Arsenic was detected in two samples above the site-specific background concentration of 18 milligrams per kilogram (mg/kg) from one soil boring at near surface (0-2 feet) at 19 mg/kg and at subsurface (>2 feet) at 35 mg/kg. The concentration at this boring at 0-2 feet is near the site-specific value and is within the site-specific range. The soil collected from the boring at >2 feet was within the fill area of the Underground Storage Tank excavation and not indigenous to the site. These values were compared to the regional background values generated for the State of Ohio of 56.1 mg/kg. The results for the boring are within the background range for the State of Ohio.

Results of the soil and groundwater sampling during the extensive investigations and additional supplemental investigations were determined to be within the acceptable risk range using U.S. EPA Region IX and Ohio EPA guidelines for Site 4. Therefore, No Further Action was recommended for Site 4. The Ohio EPA concurrence with No Further Action at Site 4 is documented in the Final No Further Action Decision Document for IRP Sites 4 and 7, dated July 2007.