EXECUTIVE SUMMARY

SITKA LANDFILL INVESTIGATION

MAY 1981

During March 17 and May 13-15, 1981, water samples from the environs of the Sitka Landfill including background, raw leachate, Turnaround Creek at the culvert exiting the landfill, and Turnaround Creek downstream samples were collected by ADEC personnel. Results indicated the following:

1. Leachate characteristics for color, turbidity, TNFR, tannin, alkalinity, COD, iron, sodium, potassium, calcium, magnesium and manganese were all as much as two orders of magnitude higher than background, landfill culvert, or downstream levels. Arsenic and lead were detected at 10 and 6 ug/l, respectively. Low nutrient levels were measured.

2. The characteristics of Turnaround Creek below the landfill when compared to the characteristics of background, raw leachate, and Turnaround Creek at the culvert exiting the landfill, suggest the following;

   a. Elevated fecal and total coliform levels below the landfill are derived from sources other than the landfill itself.

   b. High COD levels appear to originate from the landfill.

   c. Elevated levels of iron, sodium, calcium and manganese appear to originate from the landfill.

   d. Nutrients, chloride, tannin and alkalinity are at or below background levels.

   e. Some color in Turnaround Creek below the landfill is contributed by the landfill.

   f. Turbidity and TNFR in Turnaround Creek below the landfill are primarily contributed from stormwater run-off sources other than the landfill.

SEE "PROTECT FILE" UNDER SERO - SITKA LANDFILL FOR DATA