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ANALYSIS BRANCH - MONTHLY REPORT - JULY 1963

SYMBOL: HSA:JKF

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ROUTINE

Biological Samples (Urine, Feces, etc.)	875
Water Samples (Potable, Effluents, etc.)	368
Ecological Samples (Milk, Animal, Veg., etc.)	101
Air Dusts (Carbon Cartridges, Filters, etc.)	268
Miscellaneous	4
Whole Body Analysis	141

RESEARCH

Exchange isotherms were determined for synthetic alumina-silicate exchange gels.

The counting efficiency of tritium was improved by purifying the components of the organic counting solution.

Final data on the determination of thorium by precipitation on barium sulfate was completed.

SPECIAL ACTIVITIES

The new 400 channel gamma spectrometer was installed and checked out.

The Health Physics Fellowship training program was continued.

Two papers were submitted to **ANALYTICAL CHEMISTRY** for publication: Precipitation of Submicrogram Quantities of Thorium by Barium Sulfate by Claude W. Sill and Conrad P. Willis and Preparation of Carrier-Free Thorium 234 Tracer by Claude W. Sill.

REPOSITORY INEL
COLLECTION RESL Reading Files/Monthly Activity Report
BOX No. CFA-690
Room-102, Box #1
FOLDER Monthly Activity Report
Analytical Chemistry Branch

WHOLE BODY COUNTING FACILITIES

There were 127 individuals counted 141 times; with 82 routine, 10 terminations, 14 research, 24 specials, and 11 for the CERT iodine 131 study.

The detection system for use in rectilinear scanning of the human body was remodeled to provide greater flexibility in the system.