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Subject: TCAAP DU Sewer Information

I was able to obtain several documents from Daryl Terho, who used to work for Federal Cartridge at TCAAP, regarding the sanitary sewer at TCAAP.

These documents show:

* Sludge from the sanitary sewer system was sampled and analyzed at the time of the demolition of buildings 118, 165 and structure 964, which were associated with the sewage treatment plant at the TCAAP. This sampling and analysis occurred in 1995. The information that I have does not indicate who did the analysis but it was not ATK. This analysis showed the following results:

Cesium-137	0.68	picoCuries per gram
Cobalt-60	0.044	picoCuries per gram
Uranium-234	0.53	picoCuries per gram
Uranium-235	0.03	picoCuries per gram
Uranium-238	0.94	picoCuries per gram

All sanitary sewage, including that from the DU Room, would have flowed through the force main and the TCAAP sewage treatment plant that was demolished.

* Sediment from the storm sewer and sanitary sewer overflow outlets at Round Lake were analyzed by Honeywell in 1981 (I wrote the report). The amount of uranium found in the sediments was less than 0.2 micrograms per gram. The report notes that the accepted value of naturally occurring uranium in the soil in the area is 7 micrograms per gram. This same report notes that 305 micrograms per gram of uranium was found in sludge in a manhole of the sanitary sewer 24 inch line leading from the DU Room to Building 118. The manhole was located just southeast of building 118.

Water samples taken from the sanitary sewer did not detect any uranium with a detection limit of 0.01 microgram per gram.

I hope that this information helps.
Please contact me with any questions.
Jim