

UNIT NUMBER: 42

UNIT NAME: C-616 Chromate Reduction Facility

REGULATORY STATUS: AOC

LOCATION: North section of security area (Map location 42)

APPROXIMATE DIMENSIONS: Clarifiers - 128' diameter

FUNCTION: Waste water treatment unit

OPERATIONAL STATUS: Active

DATES OPERATED: 1977 to present

SITE/PROCESS DESCRIPTION: Operated for the removal of Cr+6 from cooling water blowdown. Acid and ferrous sulfate are added to the water to reduce Cr+6 to Cr+3. The Cr+3 is then precipitated using lime acid polymers. Two clarifiers and associated support units are utilized.

WASTE DESCRIPTION: Cooling water containing hexavalent chromium. Update 12/6/91 - Characterization of the area surrounding the East and West Clarifier Tanks has identified elevated concentrations of uranium and PCBs.

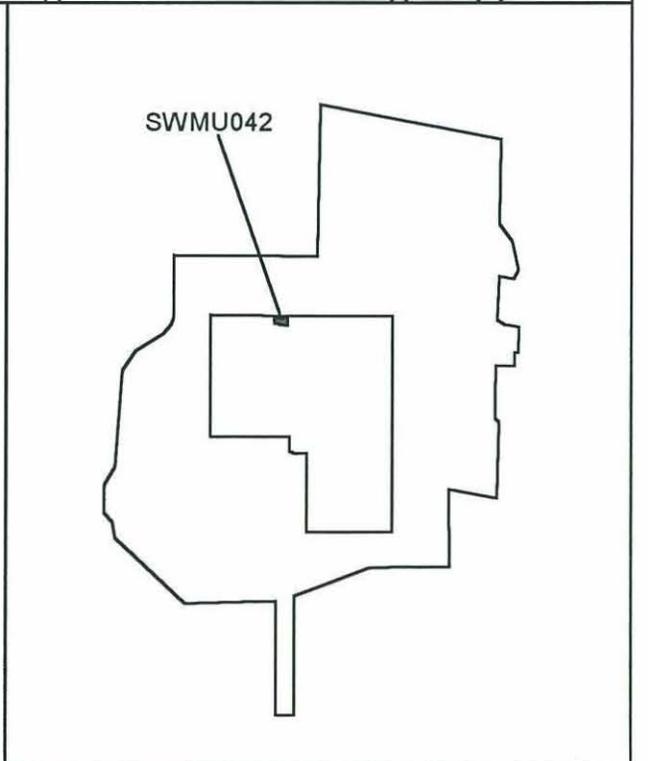
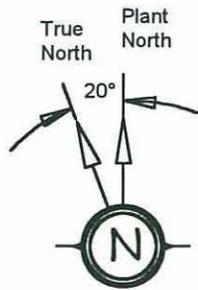
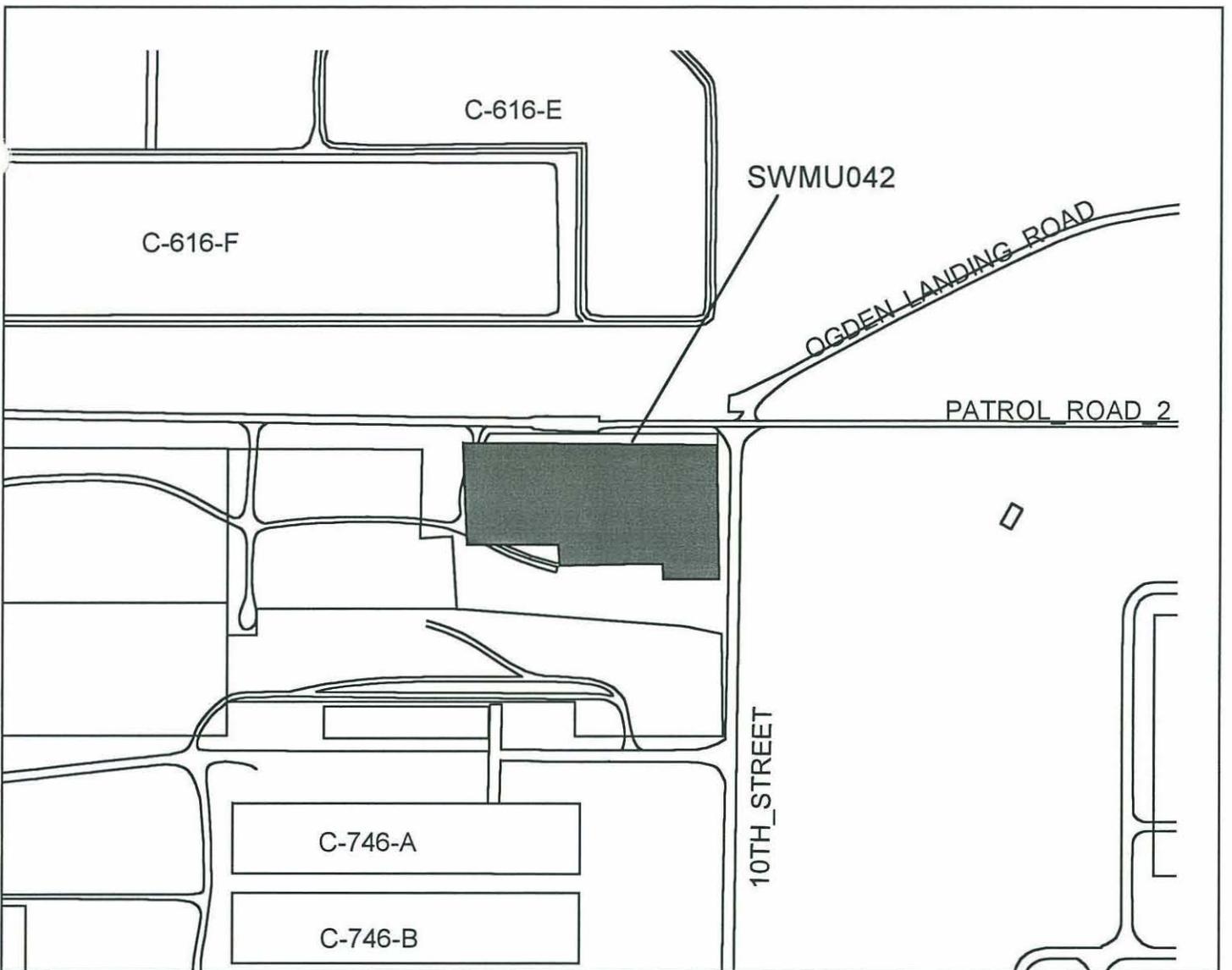
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Update 12/6/91 - Analytical results indicate PCB concentration from <0.1 ppm to 6.5 ppm while uranium activities range from 2.4 pCi/g to 41 pCi/g.

DOCUMENTATION OF NO RELEASE: The unit has been operated since 1977 under NPDES requirements. No spills of chromated water have occurred.

RFI NECESSARY: YES

SWMU 42 has been assigned to Waste Area Group 12 and will be investigated under RFI no. 5.





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