

Hanford Cleanup Briefing  
June 12, 2013  
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## Hanford Town site



# Operating History

- ▣ Began production in the early 1940s
- ▣ Fuel fabrication and R&D near Richland (300 Area)
- ▣ 9 production reactors along the Columbia (100 Area)
- ▣ Fuel processing in the Central Plateau (200 Area)
- ▣ Site listed on the Superfund National Priorities List (NPL) in 1989
- ▣ Federal Facility Agreement (Tri-Party Agreement) signed by the Department of Energy, the Environmental Protection Agency and the State of Washington in May of 1989

# *Hanford Site Map*





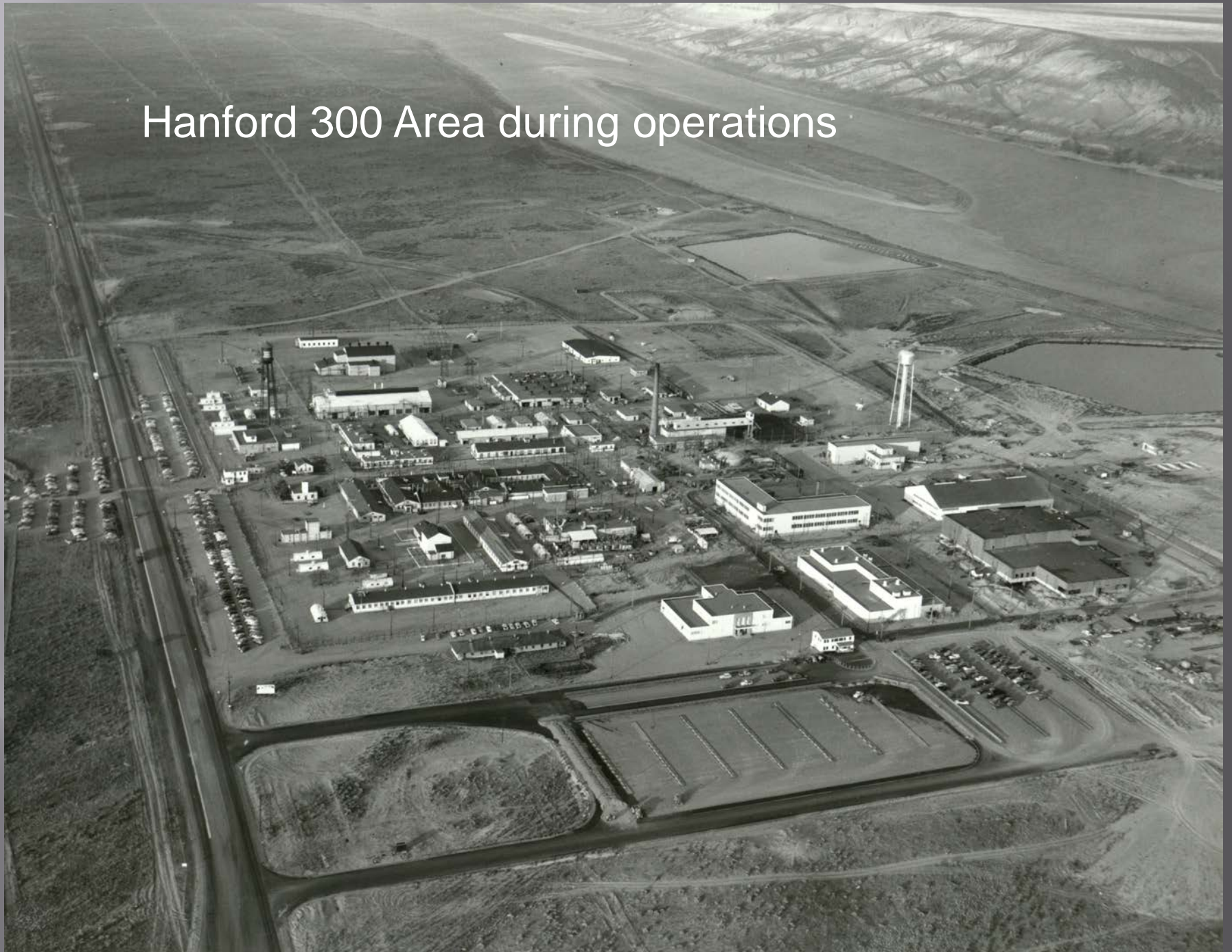
# Scope of the Cleanup

- ▣ Contaminated buildings and structures
- ▣ Spill/release sites
- ▣ Liquid disposal sites
- ▣ Solid waste burial grounds
- ▣ 53 million gallons of tank waste
- ▣ Legacy Special Nuclear Material
- ▣ Extensive groundwater contamination
- ▣ Releases to the Columbia River
- ▣ Radiological and chemical contaminants

# Cleanup Mission Strategy

- ▣ Efforts on protection of the Columbia River, including removal of source material and groundwater restoration
- ▣ 2015 vision
- ▣ Understand the nature and extent of contamination across the site to make sound cleanup decisions
- ▣ Construct the Waste Treatment Plant and manage tank waste safely

# Hanford 300 Area during operations





# 300 Area in 2010





# Hanford B Reactor





# Reactor interim safe storage



## 100 Area soil remediation





# 100 BC Cleanup





# Environmental Restoration Disposal Facility - ERDF





[illegible]

03/723 CableMap LaneMap031121WasteSite.DFM.mxd

## PFP before demolition

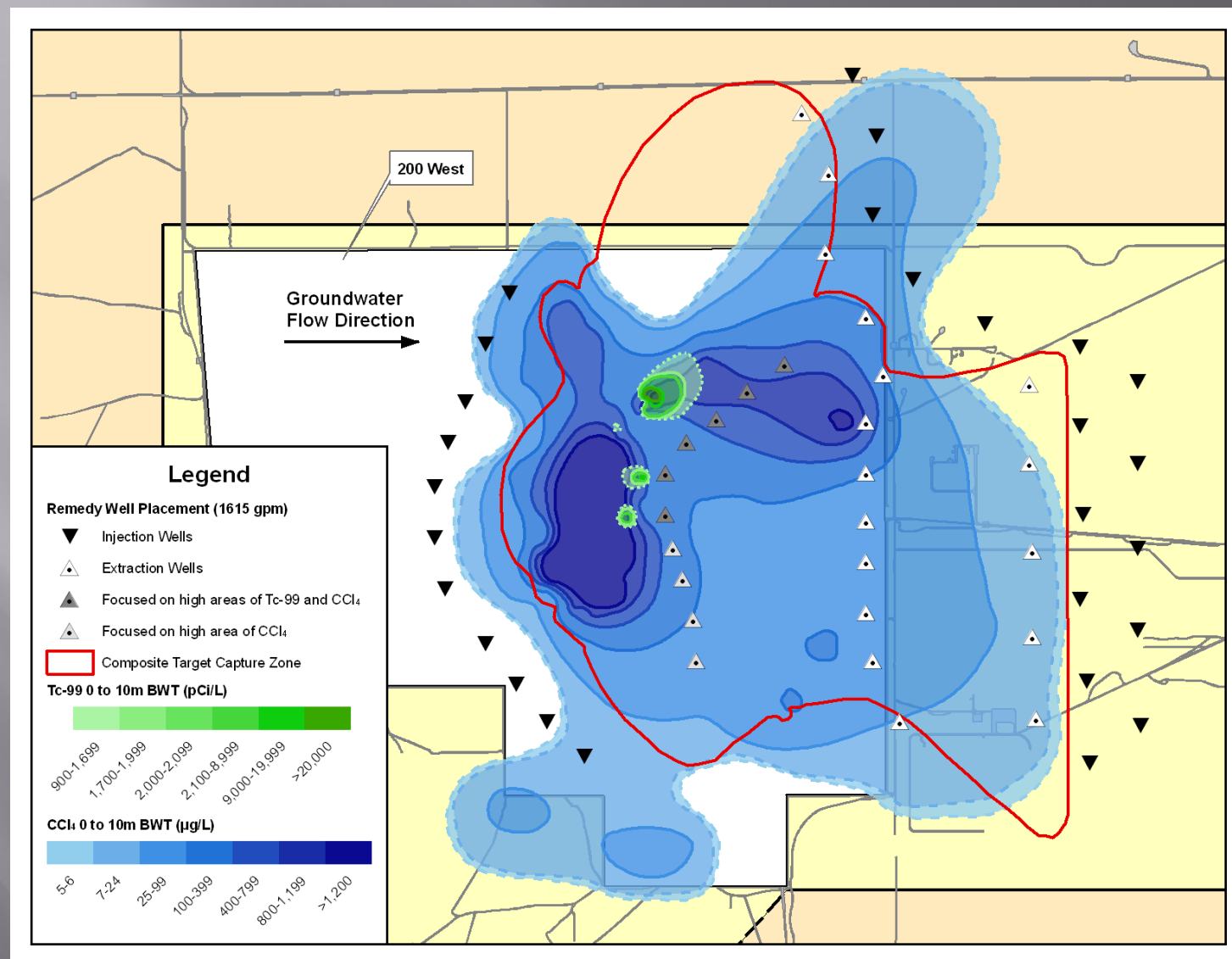


## Plutonium “button”





# Carbon Tetrachloride Groundwater Plume emanating from PFP



# Vapor extraction system for Carbon Tetrachloride in soils



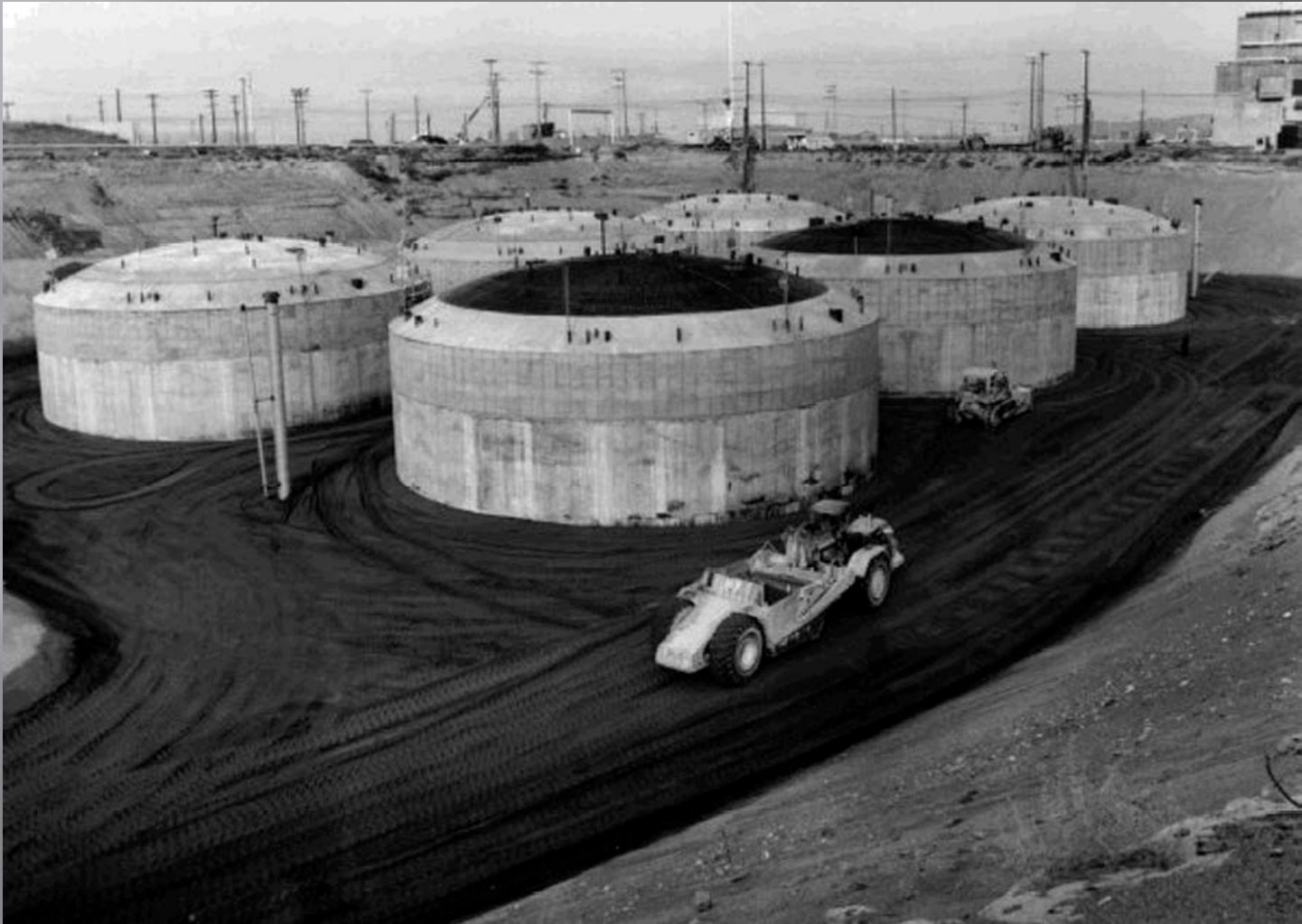


# New groundwater treatment facility for Carbon Tetrachloride and other contaminants





# Tank farm construction





# Hanford Waste Treatment Plant construction



# Issues on the Horizon

- ▣ K Basin sludge removal and treatment
- ▣ Deep vadose zone characterization and cleanup
- ▣ Vit Plant construction and operation
- ▣ Tank leaks and tank closure
- ▣ Groundwater restoration
- ▣ Budget and schedule



