PGDP GROUNDWATER HISTORY & ACCOMPLISHMENTS

GROUNDWATER

PLUMES Groundwater investigations have delineated the extent of trichloroethene (TCE) 5 and technetium-99 (99Tc) 6 in PGDP groundwater

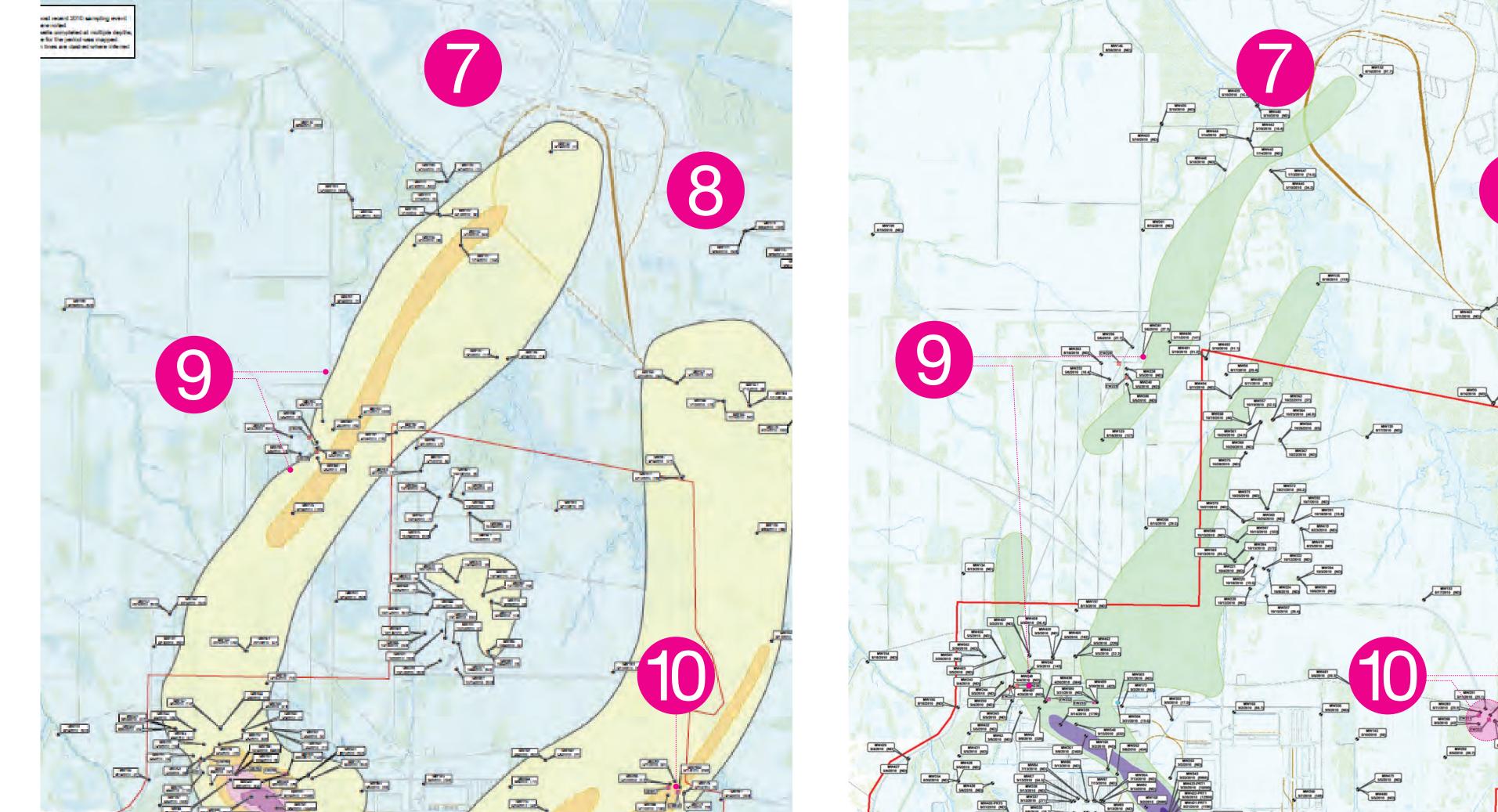
The Northwest TCE and 99Tc Plume 7 and Northeast TCE Plume 8 extend more than 3 miles toward the Ohio River from PGDP sources



Northwest Plume GW Pump & Treat System 9 begins operations extracting contaminated groundwater from two NWP extraction

PUMP &	TREAT F	RESULTS

SOURCE AREA	ESTIMATED TCE REMOVED	YR. ACTION BEGAN COMPLETE?
P&T WATER TREATED		
NW - 1,237,860,000 GAL	2,687 GAL	1995 - NO
NE - 1,674,770,000 GAL	272 GAL	1997 - NO

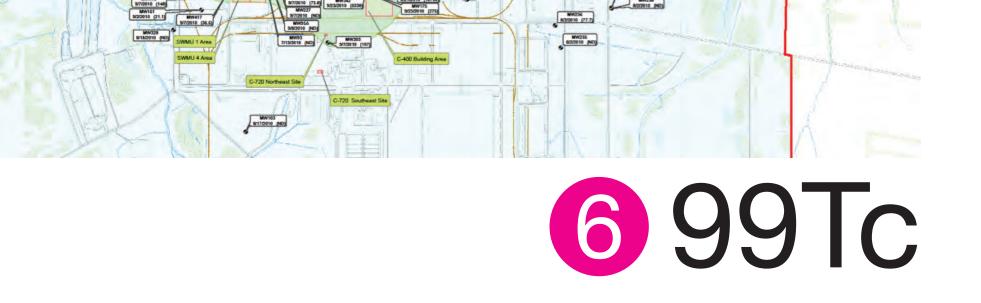


well fields 10

1997 Northeast Plume GW Extraction System begins operations







MW148 MW25 SIG010 MD

PGDP INDUSTRIAL SITE GROUNDWATER AND SOURCE IMPACTS

PGDP GW Plumes are the largest in the DOE Complex and among the largest in the world (volume and extent)

PGDP GW Plumes present worldclass remedial challenges because -Extensive industrial infrastructure -Depth (@60 - 100' bgs) -Presence of 99Tc

-Geochemistry

