



# Hanford Site Outlook

## *2018 Tri-Cities Regional Economic Outlook*

Presented by: **Brian Vance, Manager, U.S. Department of Energy Office of River Protection**

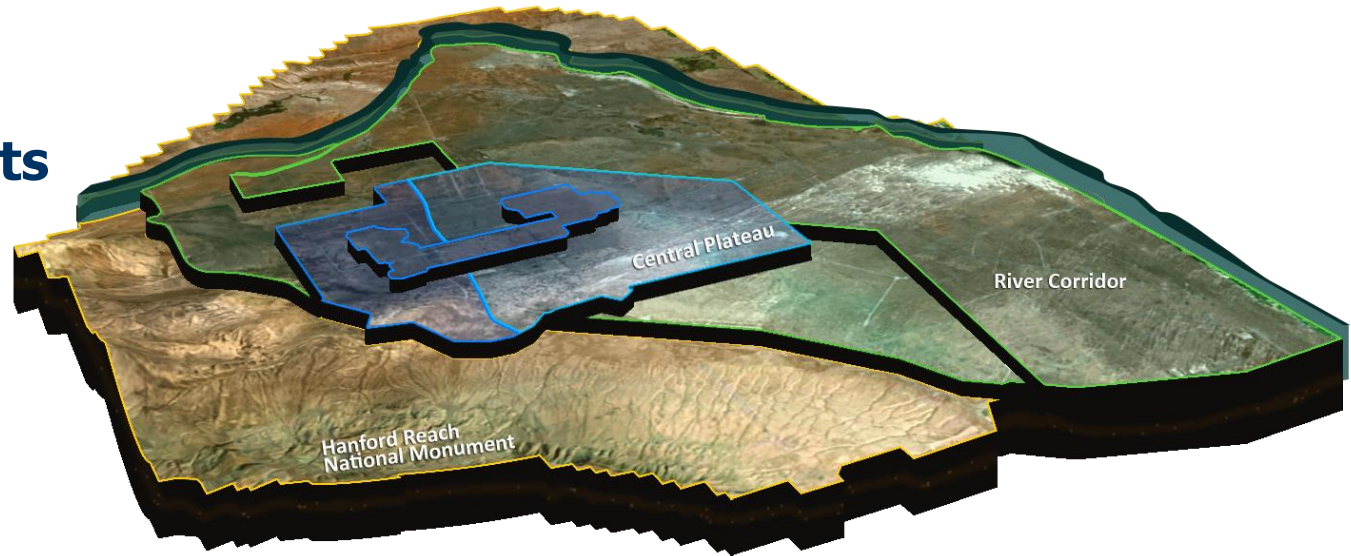




# Hanford Cleanup Overview

## Three components

- Tank Waste
- Central Plateau
- River Corridor



## Cleanup work

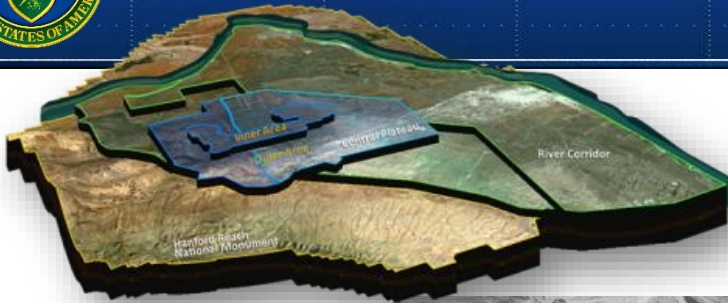
- Safely treat & manage tank waste
- Treat contaminated groundwater
- Demolish facilities
- Remove buried waste, contaminated soil near the Columbia River for safe disposal away from the river







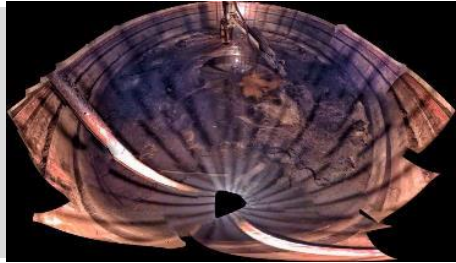
# Accomplishments By The Numbers Office of River Protection



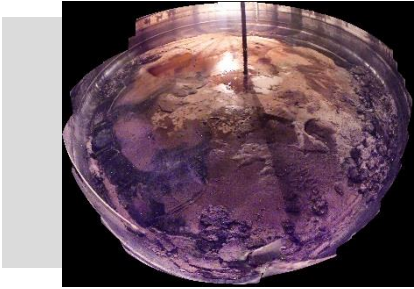
**3.46**  
million gallons of  
waste retrieved from  
underground storage tanks



**17** single-shell  
tanks retrieved  
to regulatory  
standards



**2.76**  
million gallons tank space  
created in double-shell tanks  
since 242-A Evaporator  
restarted in September 2014



**1.65**  
million gallons of  
waste retrieved  
from C Farm tanks

**85**  
million gallons of liquid  
removed from DSTs since the  
242-A Evaporator began  
operations in 1977



**1.083**  
million gallons of  
waste retrieved  
from S Farm tanks



**65**  
acres – the size of the WTP  
complex, which requires  
264,000 cubic yards of  
concrete, 41,000 tons of  
structural steel, more than  
1 million feet of piping  
among other materials





# Accomplishments By The Numbers Richland Operations Office



18

billion gallons of groundwater have been treated, removing 350 tons of contamination

6 of Hanford's nine reactors have been "cocooned"



1,342

waste sites have been remediated



2 more reactors will be cocooned in the coming years



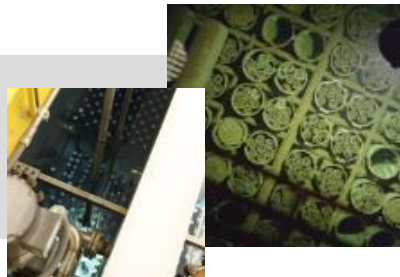
16K

cubic yards of underground waste have been removed



100

percent of the site's spent fuel has been moved to dry storage



882

facilities have been demolished







# Office of River Protection Progress

- Completed removal of waste from double-shell tank AY-102 to meet settlement agreement with State
- Completed waste retrieval efforts in C-Farm
- Continued infrastructure upgrades in A/AX Farms to support next planned tank retrievals
- Assembled two 300-ton melters in the Low-Activity Waste Facility to support start of waste treatment as soon as 2022





# Office of River Protection Priorities

- Maintain focus on worker safety
- Continue transition from construction to startup/commissioning of facilities to support Direct-Feed Low-Activity Waste approach
- Prepare infrastructure to support next tank retrievals
- Enhance relationships and communication with regulators, tribes and stakeholders







# Richland Operations Office Progress & Priorities

- Completed Plutonium Uranium Extraction Plant (PUREX) tunnel 1 stabilization
- Treated 2.2 billion gallons of groundwater and removed 145,000 pounds of hazardous and radioactive contamination last year
- Preparing to move radioactive sludge away from the Columbia River
- Preparing to remediate the highly contaminated waste site under the 324 Building, as well as move cesium and strontium capsules to dry storage
- Plutonium Finishing Plant demolition remains on hold to review contamination controls and procedures





# Current Status: Plutonium Finishing Plant

- Plutonium Reclamation Facility (PRF) demolished down to foundation and stabilized
- Multiple layers of soil cement and sand on PRF debris pile
- Surveys to determine extent of spread of contamination continue
- Developing corrective actions to ensure control of contamination



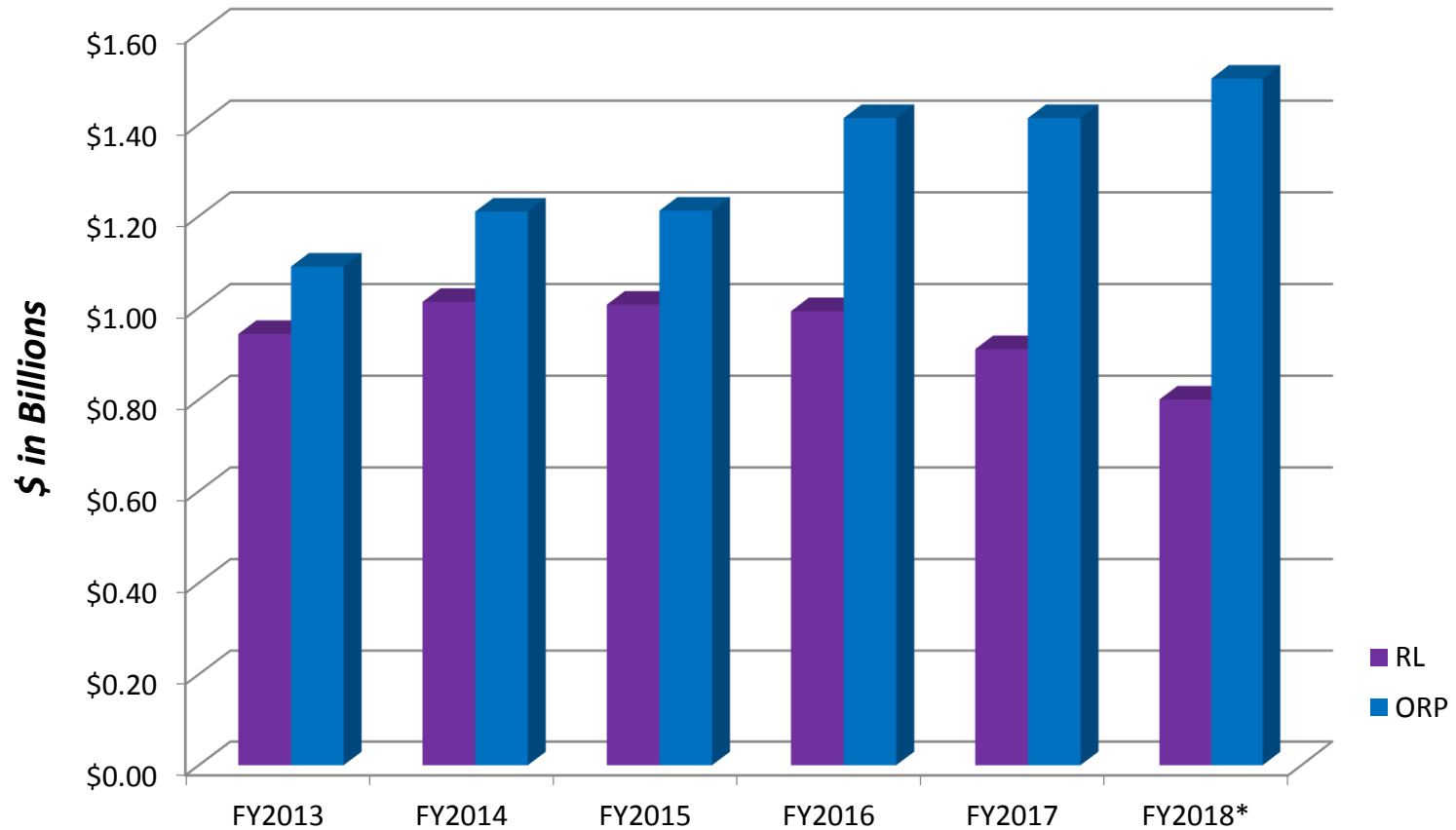
Fixative is applied to PFP's main processing center, above, and the PRF debris pile, left, to prevent the spread of contamination.







# Hanford Budget: Recent History and Current







\* President's Budget Request





# Hanford Prime Contracts

 <b>Plateau Remediation Contract PRC</b>	 <b>Mission Support Contract MSC</b>	 <b>Bechtel National Inc. BNI</b>	 <b>Washington River Protection Solutions WRPS</b>
<p>Facility and waste site cleanup groundwater remediation and waste disposal</p>	<p>Cost-effective infrastructure and site services to support the cleanup mission</p>	<p>Design, Construction, and Commissioning of the Hanford Tank Waste Treatment &amp; Immobilization Plant (WTP)</p>	<p>Tank Operations Contract Monitor and manage the 177 underground storage tanks at Hanford, prepare for and provide waste feed delivery to the WTP.</p>
<p>Total Contract Value: \$5.8B Contract Term: 5 year with 5 year option</p>	<p>Total Contract Value: \$3.7B Contract Term: 5 year with 2 and 3 year option</p>	<p>Total Contract Value: \$14.7B Contract Term: Ending in December 2022</p>	<p>Total Contract Value: \$6.1B Contract Term: 5 year with 3 and 2 year options, ending in September 2018</p>
<ul style="list-style-type: none"> <li>Total contract fee \$241M</li> <li>Cost plus award fee based on an annual fee determination composed primarily of multi-year project activities</li> <li>\$1.3B in ARRA funds added to the contract</li> </ul>	<ul style="list-style-type: none"> <li>Total Contract Fee: \$210M</li> <li>Cost plus award fee with annual performance incentives, including objective and subjective measures</li> </ul>	<ul style="list-style-type: none"> <li>Cost-Plus Award-Fee with Award and Multiple Fee Incentives</li> <li>Total Maximum Available Fee \$360M to go</li> </ul>	<p>Total contract fee: \$209M</p> <p>Cost plus award fee with annual award fee performance measure and multi-year performance incentives; 95% quantitative, 5% qualitative</p>

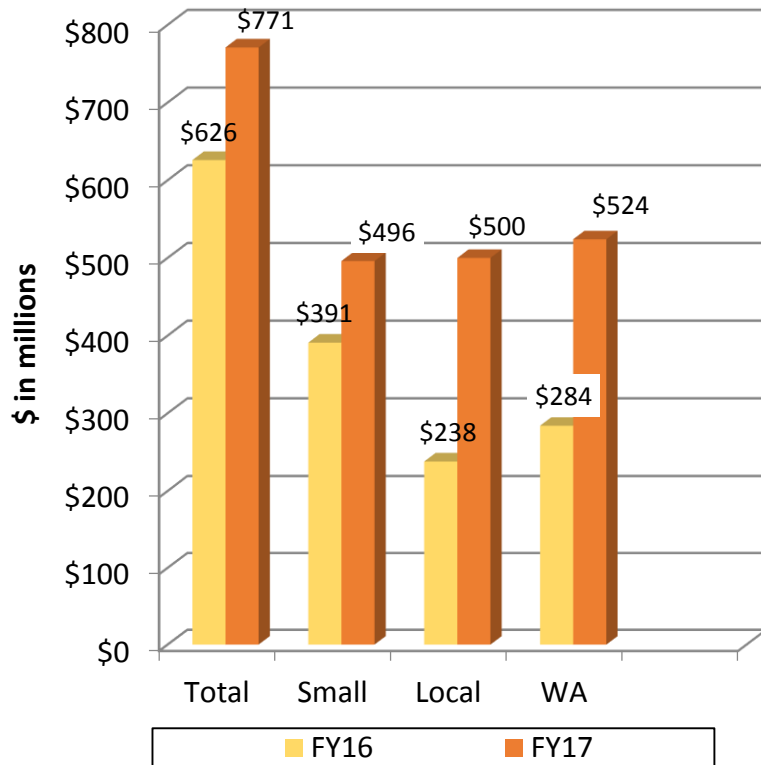




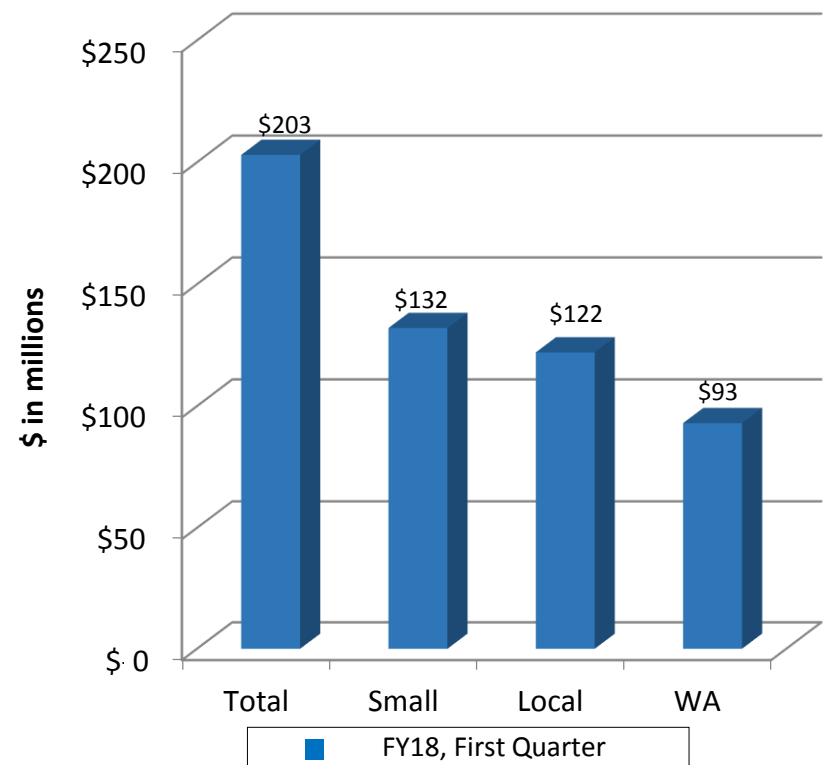


# Hanford Subcontract Spending

## Hanford Subcontract Spending in Previous Fiscal Years



## Hanford Subcontracts, First Quarter, FY2018





# Community Impact

- Supporting advanced education programs
  - Welding program at CBC
  - Donation of technology building to WSU
  - Internships
- Donating time, resources
  - Combined Federal Campaign
  - Feds Feed Families
  - Habitat for Humanity
- Support and leadership to local agencies including
  - United Way
  - Junior Achievement
  - TRIDEC
  - Boys & Girls Club
  - Reading Foundation







# Local Economic Benefits

- Hanford Site budget is about \$2.4 billion per year
- DOE prime contractors reported \$771 million of subcontracting in fiscal year 2017; \$203 million in first quarter of FY 2018
- 9,054 total DOE federal and contractor employees
- Budget outlook
  - Continued need for cleanup at current funding levels in foreseeable future
  - Cleanup mission continues to 2050-2060

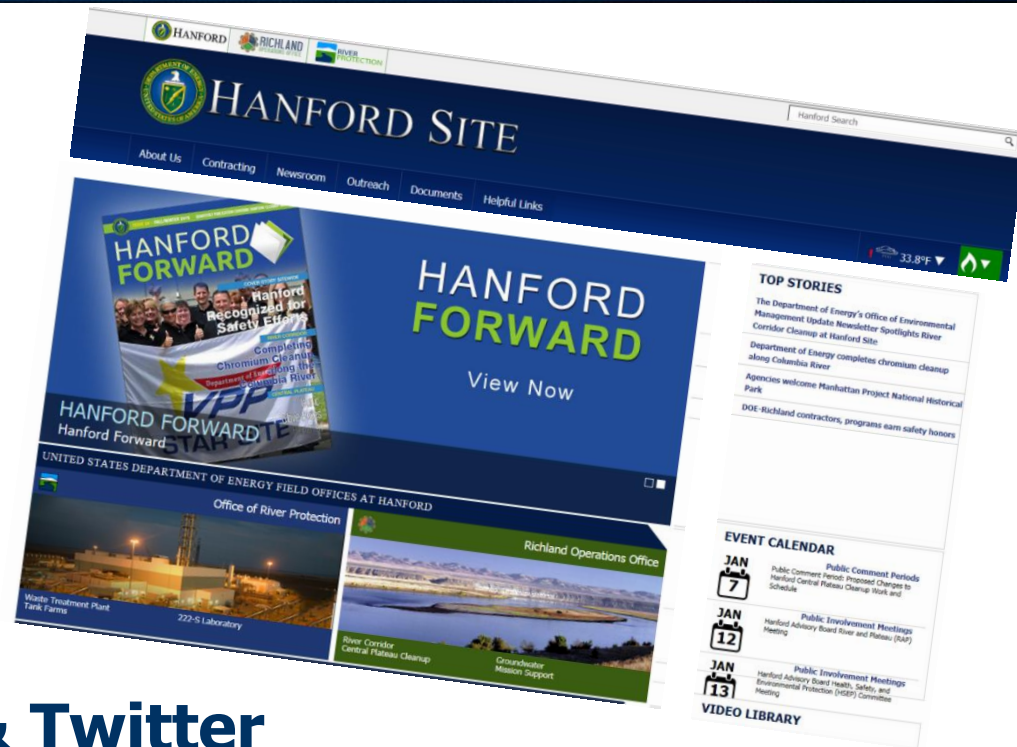




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### to learn about

- News on Hanford Cleanup
- Opportunities to provide comment on decisions
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