



# Hanford Site Outlook

## *2018 Tri-Cities Regional Economic Outlook*

Presented by: **Greg Jones, Acting Deputy Manager, U.S. Department of Energy Richland Operations Office**

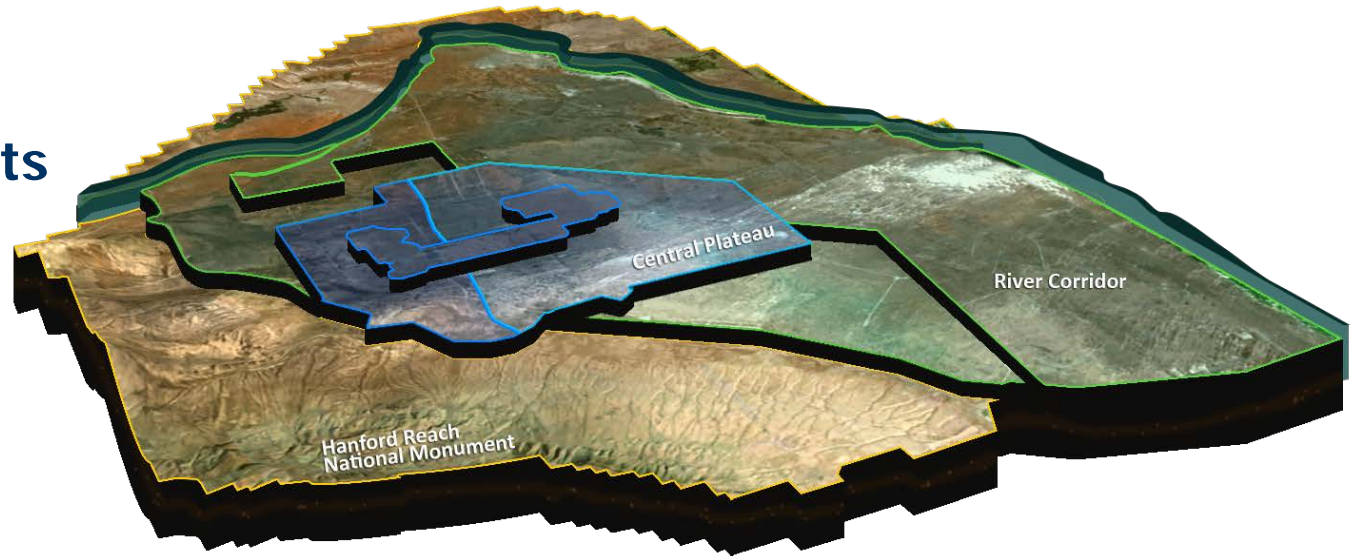




# Hanford Cleanup Overview

## 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





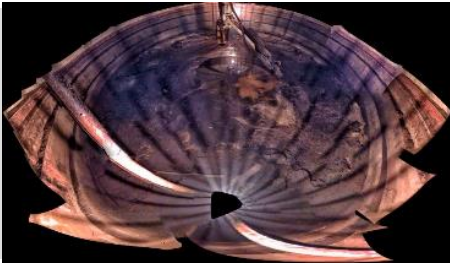
# Accomplishments By The Numbers Office of River Protection



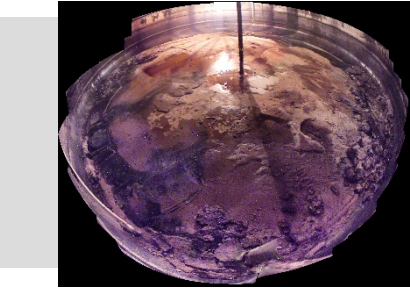
**3.46**  
million gallons of  
waste retrieved from  
underground storage tanks



**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

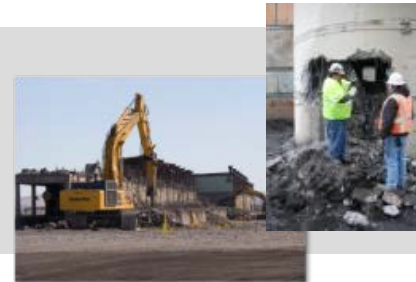
**100**

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

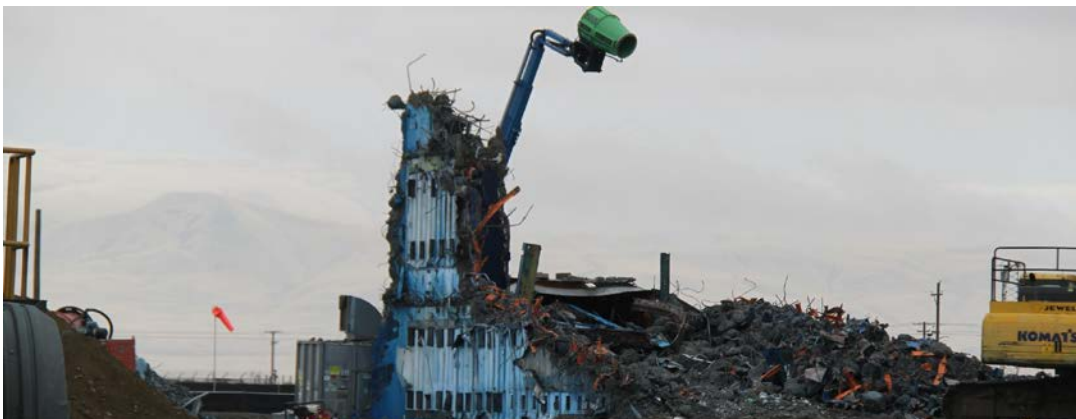
- Maintain focus on worker safety
- Continue transition from construction to startup/commissioning of facilities to support Direct-Feed Low-Activity Waste approach
- Prepare infrastructure to support next tank retrievals
- Enhance relationships and communication with regulators, tribes and stakeholders





# 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



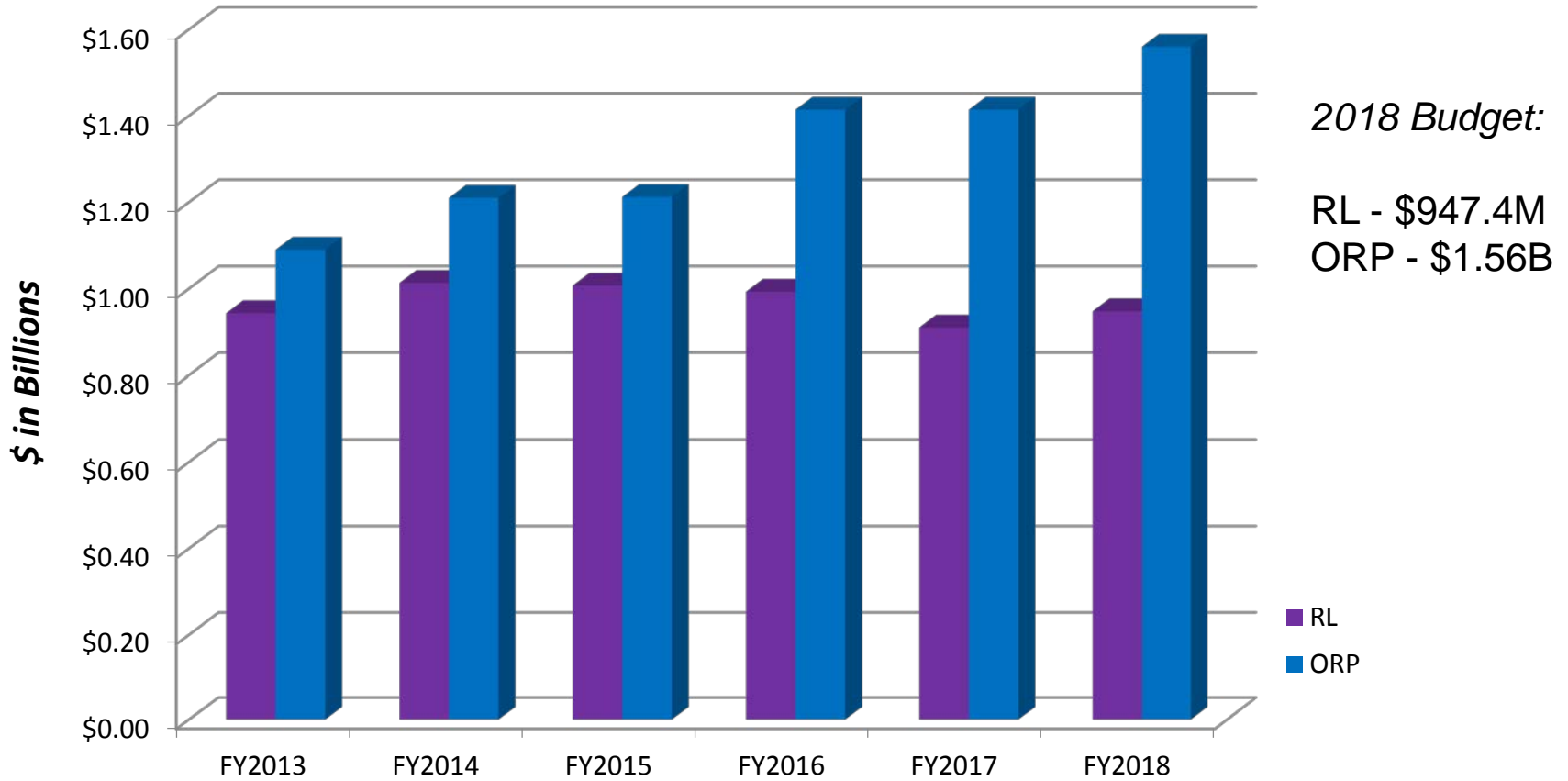
Fixative is applied to PFP's main processing center, above, and the PRF debris pile, left, to prevent the spread of contamination.











# Hanford Budget: Recent History and Current





# Hanford Prime Contracts

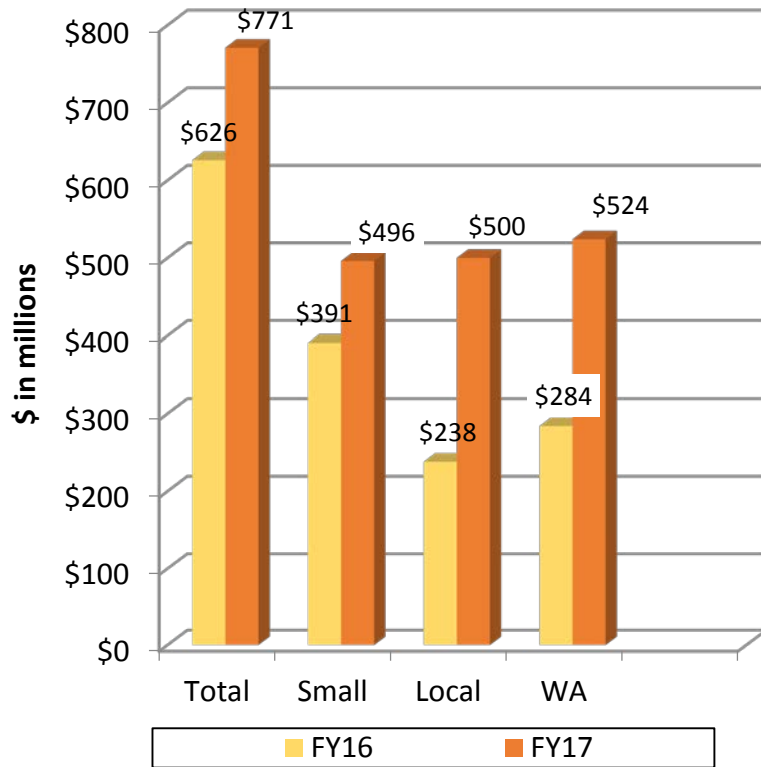
 <b>Plateau Remediation Contract</b> <b>PRC</b>	 <b>Mission Support Contract</b> <b>MSC</b>	 <b>Bechtel National Inc.</b> <b>BNI</b>	 <b>Washington River Protection Solutions</b> <b>WRPS</b>
<p>Facility and waste site cleanup groundwater remediation and waste disposal</p>	<p>Cost-effective infrastructure 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 <i>Contract Term: 5 year with 5 year option</i></p>	<p>Total Contract Value: \$3.7B <i>Contract Term: 5 year with 2 and 3 year option</i></p>	<p>Total Contract Value: \$14.7B <i>Contract Term: Ending in December 2022</i></p>	<p>Total Contract Value: \$6.1B <i>Contract Term: 5 year with 3 and 2 year options, ending in September 2018</i></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>



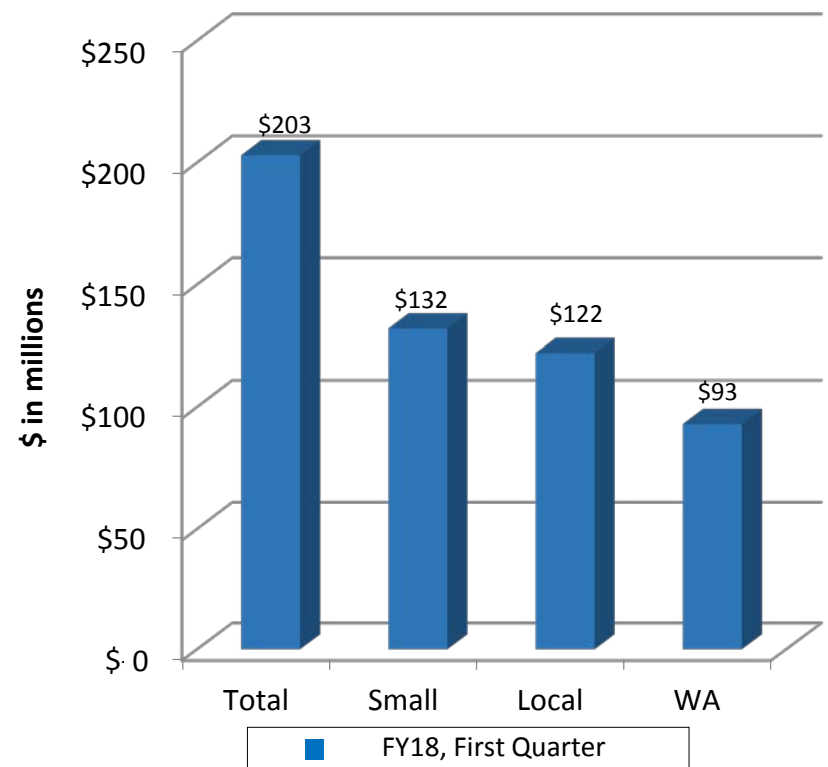


# Hanford Subcontract Spending

## Hanford Subcontract Spending in Previous Fiscal Years



## Hanford Subcontracts, First Quarter, FY2018





- 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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