

Savannah River Recovery Act Program

*Office of Environmental Management
Savannah River Operations Office
Savannah River Site
Aiken, South Carolina*



Savannah River Site Citizens Advisory Board Meeting

Update on Savannah River Recovery Act Program

March 23, 2010

Presented by

**Rodrigo (Rod) V. Rimando, Jr., Deputy Director
Savannah River Recovery Act Program**



Achieved Goal of 3,000

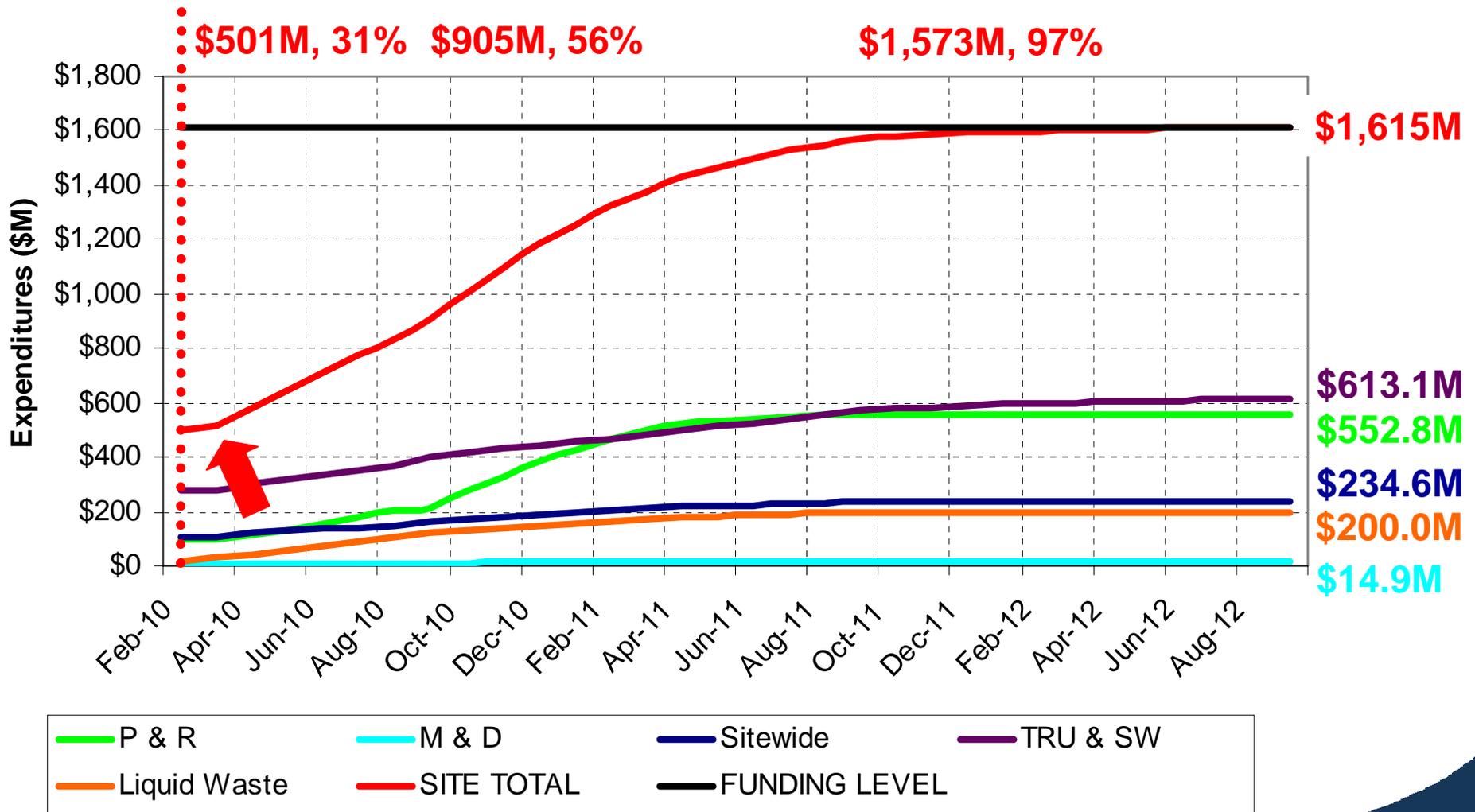


	Saved	Created	Subtotal
SRR	495	475	970
SRNS	798	1,414	2,212
Cavanagh	0	4	4
SREL	22	1	23
DOE Staff Augs	0	16	16

Grand Total = 3,225
(as of March 12, 2010)



Spend Profile



Contracts



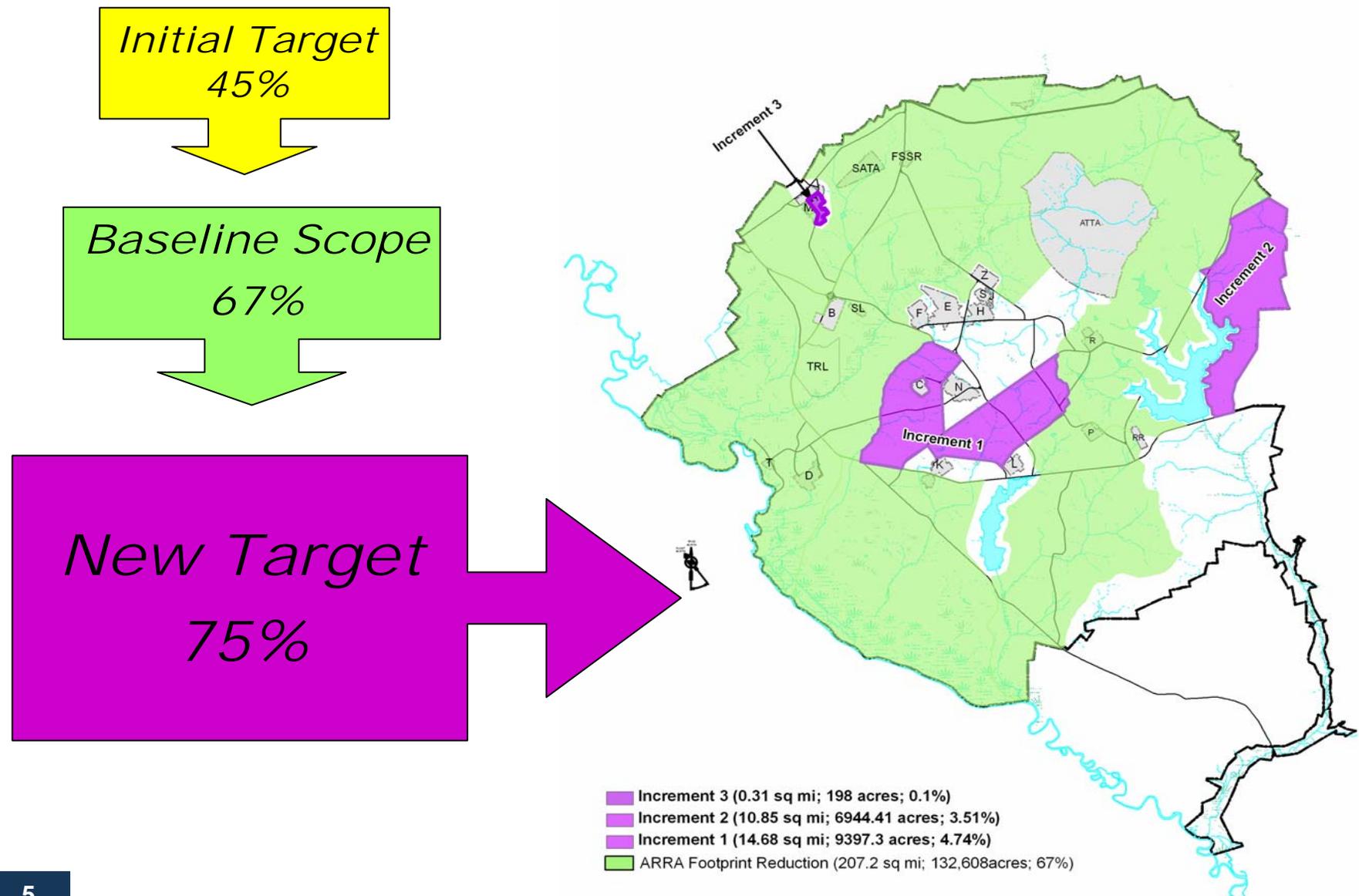
- ❖ **Savannah River Nuclear Solutions, LLC (SRNS)**
 - **SRNS subcontracts awarded = \$271,210,801**
 - **\$186,630,440 to small businesses †**
 - **\$108,150,219 to local businesses ‡**
- ❖ **Savannah River Remediation (SRR)**
 - **SRR subcontracts awarded = \$16,404,607**
 - **\$9,238,468 to small businesses †**
 - **\$11,959,832 to local businesses ‡**

† Includes local and non-local businesses

‡ Includes small and large businesses



Mission Objective: Reduce Operational Footprint



Mission Objective: Disposition Legacy TRU



Baseline	Path Forward
4,200 cubic meters of legacy waste disposed by 6/28/2012	4,200 cubic meters of legacy waste disposed by 12/30/2012
800 cubic meters of legacy waste in 6.6-m³ boxes (SLB) by 9/30/2012	800 cubic meters of legacy waste in 1.8-m³ boxes (SWB) by 9/30/2012
Development of technical approach to disposition 200 cubic meters of very difficult legacy waste	200 cubic meters of very difficult legacy waste dispositioned by 12/31/2012



Mission Objective: Accelerate, Optimize, Integrate Tank Closure and LW Operations



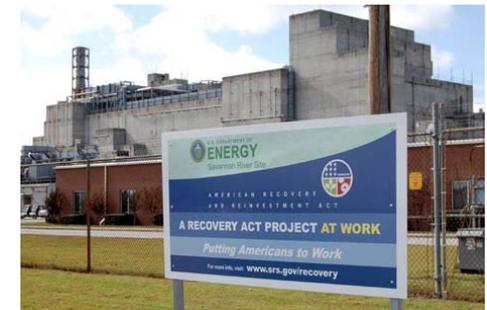
- ❖ **Tank Closure:** Conduct various phases of tank closure to include waste characterization, bulk waste and heel removal, and annulus cleaning.



- ❖ **Waste Treatment:** Design and install components to enhance Defense Waste Processing Facility and Saltstone operations



- ❖ **Salt Disposition Integration:** Install salt processing infrastructure to support Salt Waste Processing Facility



- ❖ **Facility Operations:** Design and install modifications to support enhanced salt and sludge waste removal



Mission Objective: *In Situ* Reactor Decommissioning



- ❖ Final end state
- ❖ Precedent-setting
- ❖ Demonstrate in place closure for other structural monoliths

SR-0013.R1.1, Solid Waste Disposition

- ❖ **Funding: \$324.5M**
- ❖ **Accomplishments**
 - **Submitted 710-B/N Area Closure Plan to regulators**
 - **Completed setup in F Area to load DUO drums into sealands for shipment to ORNL**
 - **Continuing with solid waste management operations in E Area**



SR-0013.R1.2, Accelerated TRU Waste Disposition

- ❖ **Funding: \$303.6M**
- ❖ **Accomplishments**
 - **Completed RTR Fastscan of 49 drums and 6 SWBs**
 - **Completed remediation of 19 drums at F Canyon**
 - **Overpacked 110 Pad 1 Drums**
 - **Initiated ISOCS assay of SLB-2 containers from H-Canyon repackaging**
 - **Initiated remediation in H Canyon Warm Shop producing 6 compliant SWBs**
 - **Processed 54 TRU Pad 1 Drums through Vent and Purge**
 - **Completed 17 shipments to WIPP**



SR-0014C.R1.1, Liquid Waste System Recapitalization

- ❖ **Funding: \$200.0M**
- ❖ **Accomplishments – Waste Removal and Tank Closure**
 - Completed first RA project moving a pump from Tank 6 to Tank 5
 - Completed Tank 5 Ventilation Refurbishment
 - Installed Tank 13 steam line modifications
 - Completed D&R of Riser 2A and 4
 - Awarded contract for ECC Real Waste Test Equipment
- ❖ **Accomplishments – Facility Operations**
 - Completed preliminary design for Tank 50 shielding
- ❖ **Accomplishments – Waste Treatment**
 - Completed final designs for all 4 DWPF Bubblers to increase melter throughput



SR-0030.R1.1, P-Area & R-Area Completion GPP & Operations

- ❖ Funding: \$165.5M
- ❖ P Area Accomplishments
 - Achieved mechanical completion of P Cask Car Railroad Tracks Waste Unit
- ❖ R Area Accomplishments
 - Achieved mechanical completion of R Cask Car Rail Road Tracks Waste Unit



SR-0030.R1.2, P-Reactor Decommissioning Project

- ❖ **Funding: \$142.2M**
- ❖ **Accomplishments**
 - **Completed core-drilling in the monitor-pin room roof to accommodate exhaust stacks for evaporators 7-10**
 - **Released contractor (Bierlein) to assemble main crane for Gantry Crane removal**



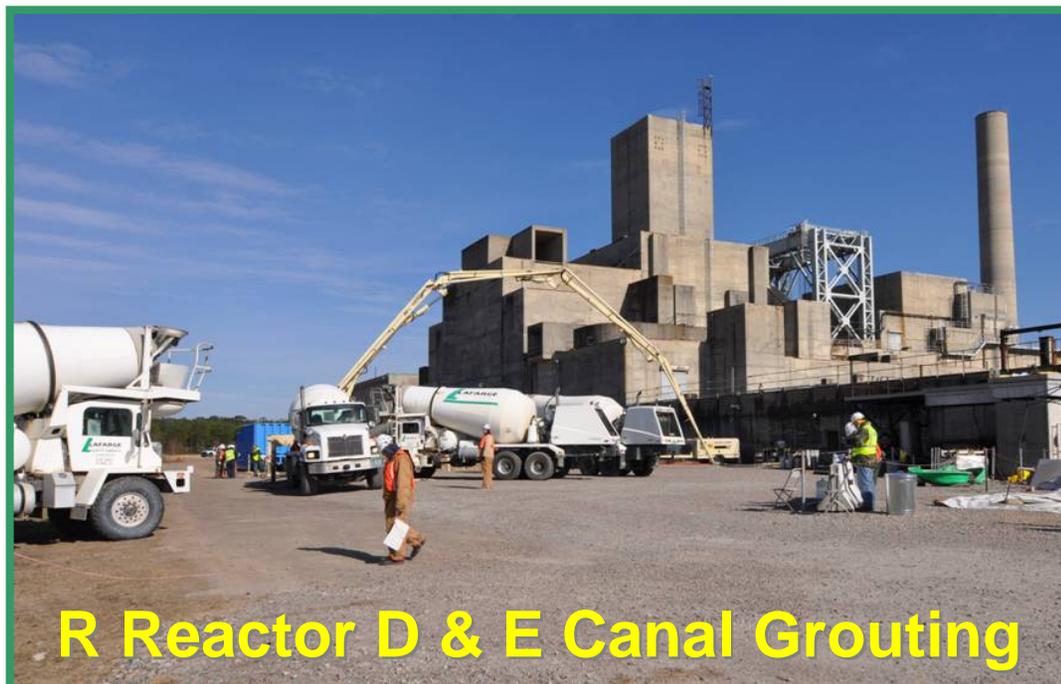
SR-0030.R1.3, P-Area Ash Basin Remedial Action Project

- ❖ **Funding: \$30.0M**
- ❖ **Accomplishments**
 - **Started removing 35-acres of vegetation from the P Ash Basin and 007 Outfall**
 - **Completed hand-auger sampling at 37 locations to determine ash thickness**



SR-0030.R1.4, R-Reactor Decommissioning Project

- ❖ Funding: \$149.3M
- ❖ Accomplishments
 - Placed 3,674 cubic yards of grout in the Disassembly Basin
 - Started removing non-embedded metal from the exterior of 105-R



SR-0030.R1.5, R-Area Ash Basin Remedial Action Project

- ❖ Funding: \$11.8M
- ❖ Accomplishments
 - Completed stockpiling more than 62,000 cubic yards of soil (fill material) from an on-site borrow pit



SR-0030.R2.1, M-Area & D-Area Completion GPP & Operations

- ❖ Funding: \$17.3M
- ❖ D Area Accomplishments
 - Started removing PCB coating from the 420-D slab
 - Started reassembly of the new Detritiation Treatability Unit
- ❖ M Area Accomplishments
 - Achieved mechanical completion of Soil Remediation Cells 1 & 2
 - Started installing four soil vapor extraction wells



SR-0030.R3.1, Site-Wide Completion GPP & Operations

- ❖ Funding: \$226.5M
- ❖ Accomplishments
 - Completed waste characterization and core sampling at ECODS B-3 and B-5
 - Initiated biohazard removal at the 293-F stack

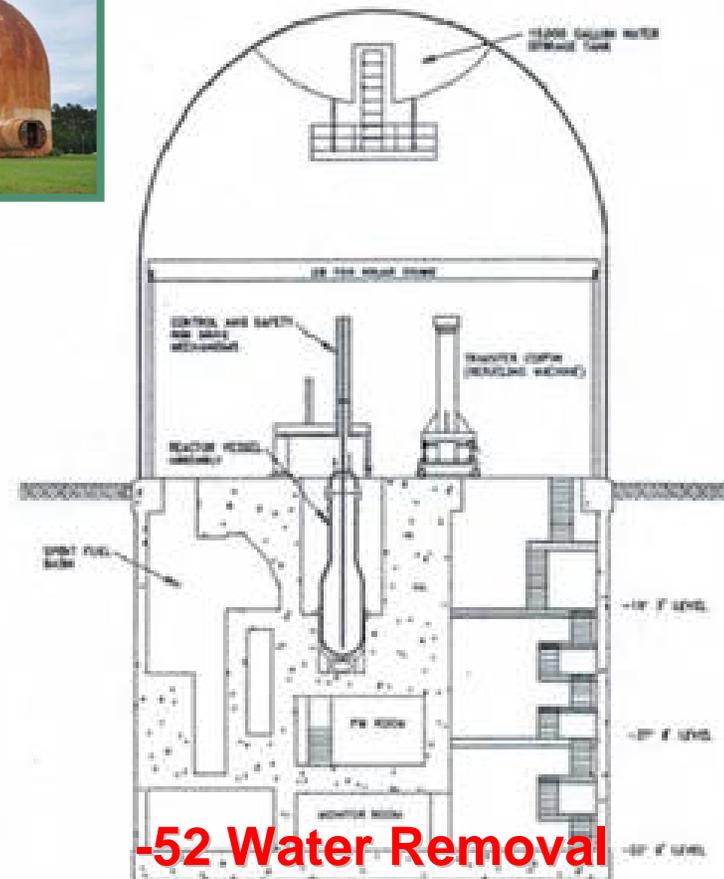
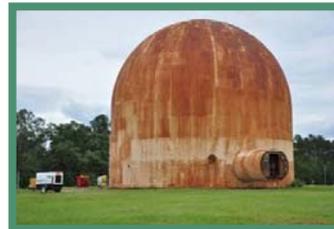


SR-0030.R3.2, Heavy Water Components Test Reactor Decommissioning Project



U.S. DEPARTMENT OF
ENERGY
Savannah River Site

- ❖ Funding: \$10.7M
- ❖ Accomplishments
 - Completed asbestos inspection
 - Replaced ventilation exhaust blower
 - Completed public comment for the RSER/EE/CA
 - Removal residual water from the HWCTR basement (-52 foot-level)



Meeting Objectives



❖ **Employing people**

- **3,225 at SRS**

❖ **Contributing to local economy**

- **\$120 million in local subcontracts**
- **\$287 million in subcontracts**

❖ **Getting real work done**

- **Reducing operational footprint by 75%**
- **First large site to disposition legacy TRU**
- **First in situ decommissioning of nuclear reactors**



Proposed Re-Apportionment



Budget & Reporting Level	Initial Appropriation (April 2009)	Re-apportionment (September 2009)	Proposed Re-apportionment (March 2010)
SW & TRU	\$ 541,000,000	\$ 541,000,000	\$ 613,072,107
P&R	\$ 579,000,000	\$ 478,400,000	\$ 552,793,853
M&D	\$ 130,000,000	\$ 104,000,000	\$ 14,924,671
Sitewide	\$ 365,400,000	\$ 292,000,000	\$ 234,609,368
Liquid Waste	\$ -	\$ 200,000,000	\$ 200,000,000
TOTALS	\$ 1,615,400,000	\$ 1,615,400,000	\$ 1,615,400,000

