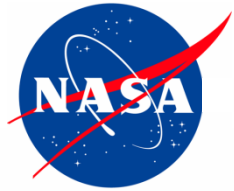


Wastewater Capabilities and Issues for the Wallops Flight Facility

Caroline Massey, Assistant Director of Management Operations

Paul Bull, Facility Engineer



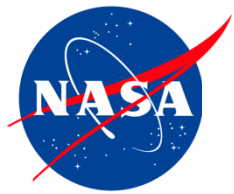
NASA Goals

1. Provide Water and Wastewater Services at the Wallops Flight Facility (WFF) for NASA and its Partners

Support New Missions and Building Program to Support Taurus II COTS and CRS and Other Orbital Launch Programs

2. Maintain Environmental Stewardship and Compliance with Relevant Regulations

3. Promote Sustainable Economic Development of the Area for Activities Related to NASA's Mission



Wastewater System

- VPDES permit #VA 0024457– Through August 2014
- Design Capacity: 300,000 gpd
- Average Daily Flow: 50,000 gpd
- New Requirements:
 - Wallops Research Park ~ 15,000 gpd;
 - COTS/CRS ~ 10,000 gpd
- Rates:
 - FY 08 \$4.90/kgal;
 - FY 09 \$5.07/kgal;
 - FY 10 \$4.25/kgal



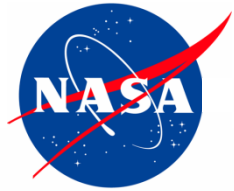
Waste Water Treatment Plant





Wastewater System Value and Costs

Wastewater System	CRV	O&M	Condition
Treatment Plant/Lift Stations	\$5,934,121	\$238,092	Good
Collection System	\$10,240,152	\$20,000	Good
Sampling/Testing		\$57,643	N/A
Other (Electricity/Sludge Disposal)		\$52,123	N/A
Totals	\$16,174,273	\$367,858	



Wastewater Issues

- Meeting More Stringent Effluent Discharge Parameters for Permit
 - Ability to Meet Nutrient Discharge Parameters
 - Future Capital Investment
- Maintain Our Discharge Capacity
- Increased Cost to Dispose of Sludge