

***Sanitary Sewer Overflow
Consent Decree***

***Presentation to Anacostia Watershed
Committee***

***Washington Suburban
Sanitary Commission***

December 9, 2010



Three Phases of SSO Consent Decree



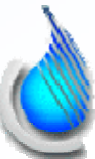
**Sanitary Sewer Evaluation Survey (SSES)
Closed Circuit Television (CCTV)
Trunk Walk (Lines > 15")
Sewer Cleaning
Fats, Oils, & Grease Program (FOG)
Collection System Modeling
Pump Stations**

**Number of SSOs
Number of basement backups
Reduction in Inflow/Infiltration (I/I)
Effectiveness of Preventive
Maintenance**



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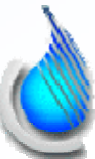
- Comprehensive Sewer Surveys in 9 Basins
 - 4 SSEs completed (Broad Creek II, Cabin John, **Beaverdam Branch**, Piscataway)
 - 5 SSEs underway (**Northeast Branch**, Parkway, Little Falls, Rock Run and Watts Branch)
- Collection System Model
 - Computer modeling of at least 965 miles of sewer within five years
 - Completed in 2007



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(Anacostia Watershed)

- Inspect 670 Miles (estimate) of Sewer Mains in Five Years
 - CCTV inspected over 695 miles of sewer
- Inspect 220 Miles (estimate) of Large Sewer Mains (15” and Larger) via Video and Specialized Tests
 - Trunk Sewer Inspection of over 220 miles of sewer
- Clean 670 Miles of Sewers in Five Years
 - Cleaned over 680 miles of sewer



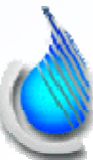
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(Anacostia Watershed*)

Basin Name	Miles of Sewer Cleaned	Miles of Sewer CCTV	Miles of Trunk Sewer Inspected
Beaverdam Branch	39.33	39.33	6.36
Sligo Creek	99.97	108.25	25.95
Lower Anacostia	31.31	32.14	12.10
Northwest Branch	213.99	220.14	60.00
Oxon Run	103.81	104.58	26.45
Northeast Branch	24.54	24.54	43.79
Paint Branch	167.67	170.94	49.53
Total	680.62	699.92**	224.18**

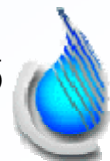
* Represents approx. 26% of the overall inspection requirement throughout the system

** All required inspections are complete



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- Water Quality Monitoring – Semi-Annual Sampling (Bacterial Source Tracking & Fecal-Indicator Bacteria Testing) – Plan Approved 2007
 - Identify human vs. non-human bacterial sources and determine whether sewer improvements are reflected in surface water quality
 - 2 Locations/Sewer Basin (18 sample points in 9 Basins: Lower Anacostia, Lower/Upper Beaverdam Creeks, Northeast Branch, Northwest Branch, Sligo Creek, Oxon Run, Paint Branch & Indian Creek)



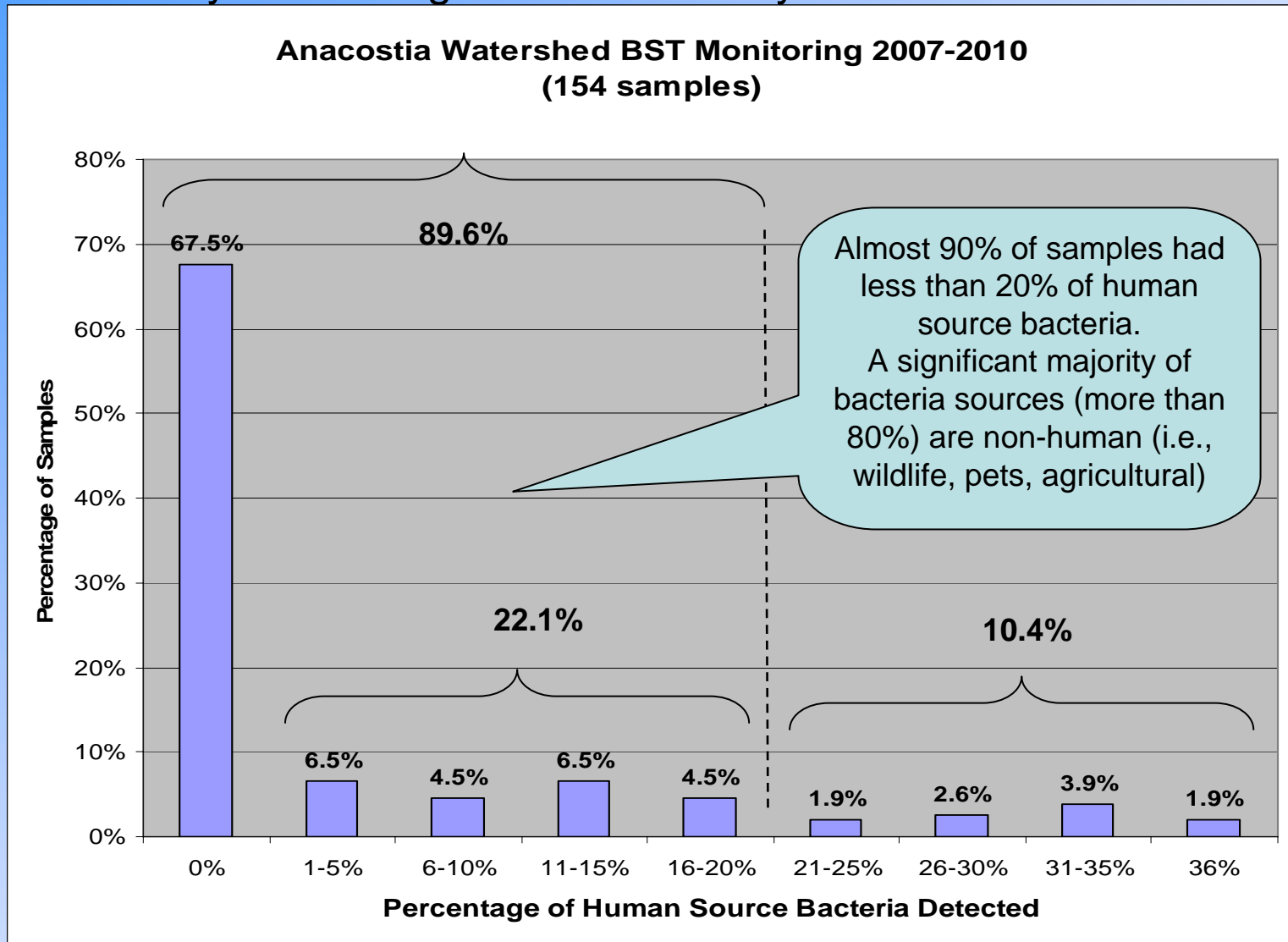
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- Water Quality Monitoring Plan – Semi-Annual Sampling Conducted
 - Eight full rounds of sampling completed in past 4 years (2007-2010). Eighth semi-annual round results scheduled for reporting in the 4th Quarter 2010.
 - Quarterly sampling in Lower Anacostia, Sligo Creek, Northeast and Northwest Branch (4 Year trial basis) Not Consent Decree required. Last submitted in the 3rd Quarter 2010 Report.
 - Monitoring to date has established typical range of background or “baseline” bacteria sources prior to SR3 Plan implementation.



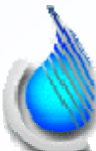
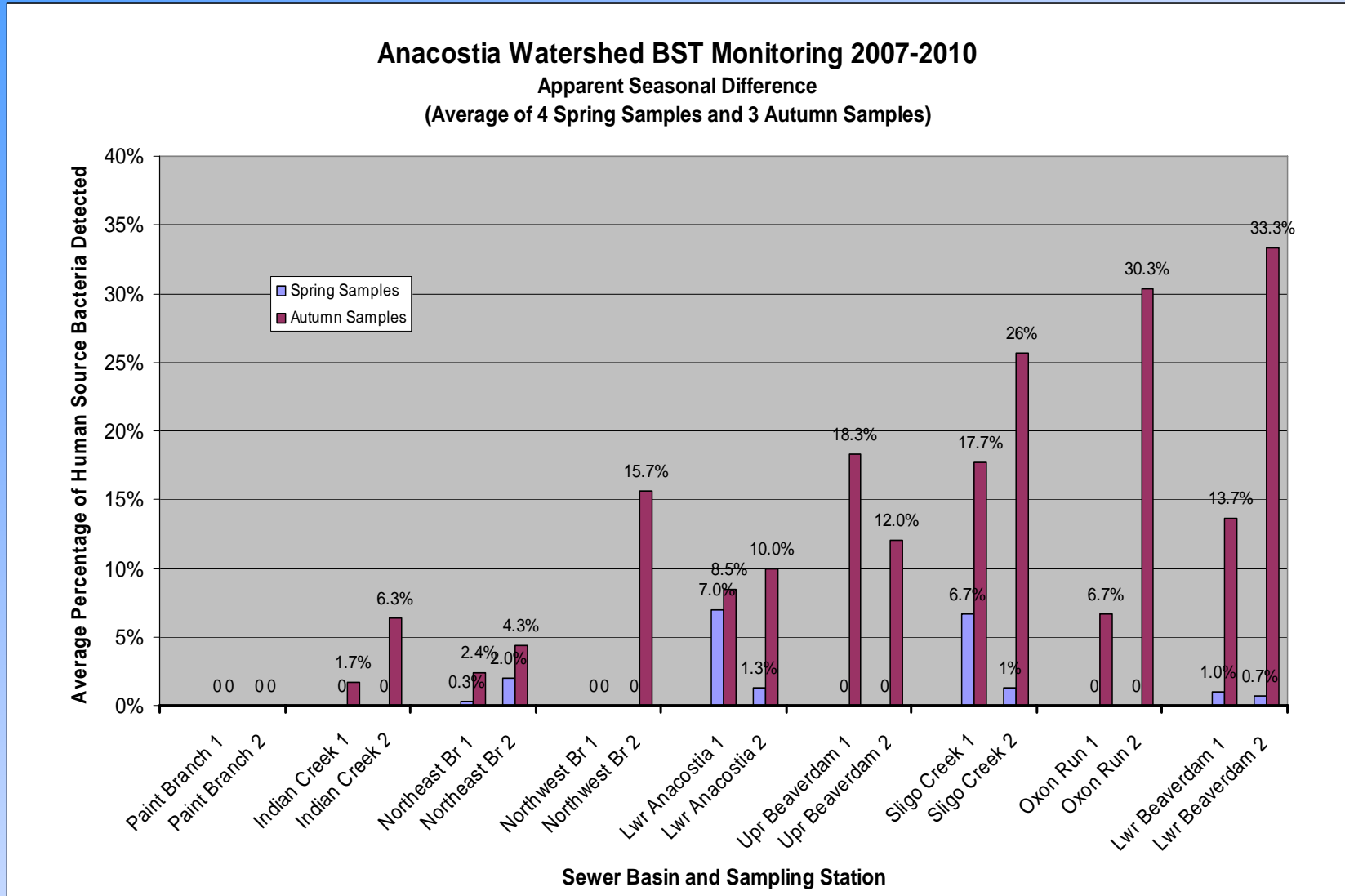
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- Water Quality Monitoring Plan – Summary of Results 2007-2010



Consent Decree

- Water Quality Monitoring Plan – Summary of Results 2007-2010



Consent Decree

(Anacostia Watershed)

- Complete Priority 1 Rehabilitation Work Identified by Inspections & Surveys in 10 Years-Sewer Repair, Replacement, Rehabilitation Plan (SR³ Plans)

FY09

- Northwest Branch Basin – 4.7 miles rehabilitation
 - submitted and approved by the EPA
- Oxon Run Basin – 2.69 miles rehabilitation
 - submitted and approved by the EPA
- Sligo Creek Basin – 4.7 miles rehabilitation
 - submitted and approved by the EPA

FY10

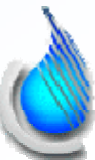
- Paint Branch Basin – .83 miles of rehabilitation
 - Submitted and approved by MDE

FY11

- Lower Anacostia Basin – 1.5 miles rehabilitation
 - Submitted and approved by MDE
- Beaverdam Basin– waiting on regulators approval of the SSES before submitting the SR³ Plan

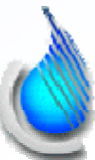
FY12

- Northeast Branch – on schedule for submitting SR³ Plan



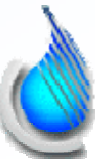
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- Enhance our Existing Fats, Oils and Grease (FOG) Program – Issue all FOG Permits by December 30, 2010 and Complete all Inspections by June 7, 2012.
 - Modified FOG Plan and FOG Permit approved by MDE and EPA
 - Completed 55% baseline inspections for year one through four (Completed 6,000 baseline inspections as of November 29, 2010)
 - Completed 100% Permits Issued Milestone (Issued 5,149 FOG permits as of November 29, 2010)
 - Issued 3,372 Notice of Violations since January 1, 2000
 - Issued 280 Citations ranging from (\$250 to \$1,000) since January 1, 2000
 - Continuing public outreach



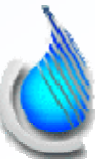
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- Environmental Projects completed in 5 Years
 - Enhance Existing Source Water Protection Efforts by Purchasing Buffer Property Around the Patuxent River Reservoirs (Not Less Than \$3.29 Million)
 - Two properties purchased in 2009 (21.36 acres in Burtonsville and 13.83 acres in Highland)
 - Two conservation easements purchased in 2010 (15.75 acres in Burtonsville and 17.06 acres in Brookeville) and one property purchased in 2010 (4.47 acres in Scaggsville)
 - Approx. \$3,403,000 spent to date
 - SEP Completion Report in progress



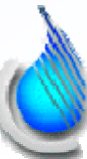
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- Pump Stations – Submit Plan/Schedule for Implementation of Facility Plan for Anacostia Pump Station.
 - Anacostia Facility Plan has been approved by MDE and EPA. Final Design received on October 30, 2009. All Permit approvals were received November 30, 2010. The MDE and the EPA granted a schedule extension due to delays in receiving permit approvals. A revised schedule will be submitted to the MDE and EPA by December 30, 2010, for approval. Anticipate construction 2011 - 2015.
 - 90 Day Corrective Action Plan for Anacostia II Pump Station, Power Reliability Study. All tasks in the Plan and Schedule were complete April 28, 2010.



WSSC Statistical Data

Calendar Year	SSOs	SSO Volume (gallons)	Anacostia Watershed SSOs	Anacostia Watershed SSO Volume (gallons)
2006	204	14.4 million	84	5.4 million
2007	134	9.2 million	52	39,999
2008	185	56.8 million	67	1.6 million
2009	181	690,922	64	59,037
2010 <small>As of December 1, 2010</small>	114	570,376	43	23,511



Questions?

