

August/September, 2010

Biosolids Division Monthly Report

Submitted by:

Chris Peot, P.E.

Biosolids Division Manager

District of Columbia Water and Sewer Authority

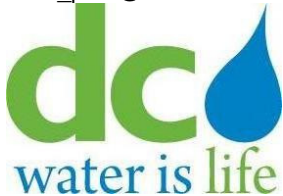
Biosolids Division

5000 Overlook Avenue SW

Washington, DC 20032

202-787-4329; 202-787-4226 (fax)

chris_peot@dcwasa.com



The mission of the District of Columbia Water and Sewer Authority

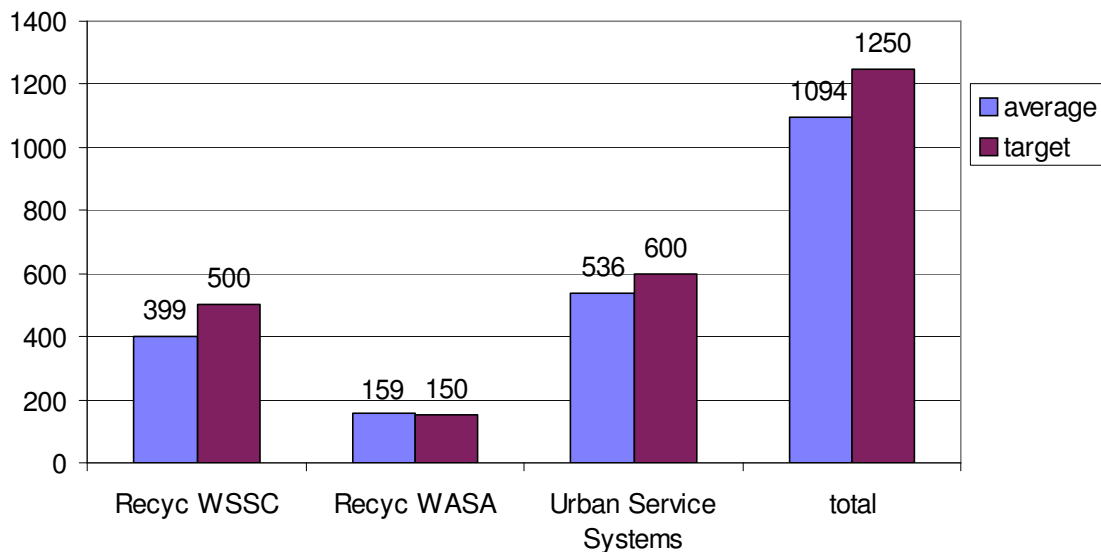
biosolids management program is to provide reliable, diversified, flexible, sustainable, environmentally sound, publicly acceptable, and cost-effective management of biosolids produced by the Blue Plains Advanced Wastewater Treatment Plant while helping preserve agriculture and protect the Chesapeake Bay.

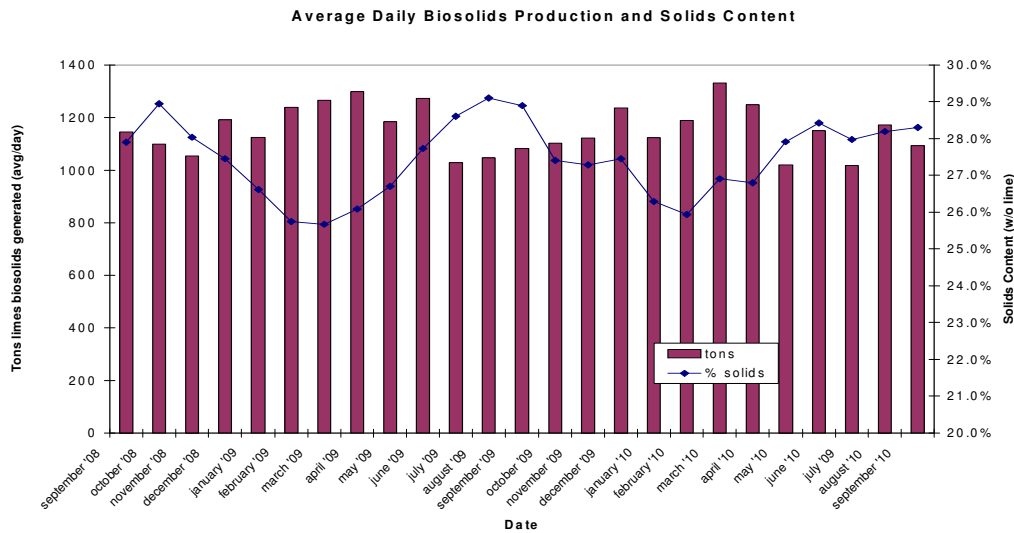
August/September 2010 Biosolids Division Report

In September, biosolids hauling averaged 1094 wet tons per day. The graph below shows the hauling by contractor for the month of September. The second graph shows average tons recycled and solids content for the last 24 months. The average solids percentage for September was 28.3%, and average lime dose was 16.9%.

In September WASA again shipped biosolids to the McGill Compost Facility in Waverly, VA. This is done through the Urban Service Systems contract. In September a total of 782 tons went to compost production. Storage totals as of the end of September include no (0) tons in Cumberland County, VA, no (0) tons in the Fauquier Lagoon, and no (0) tons in Cedarville Lagoon.

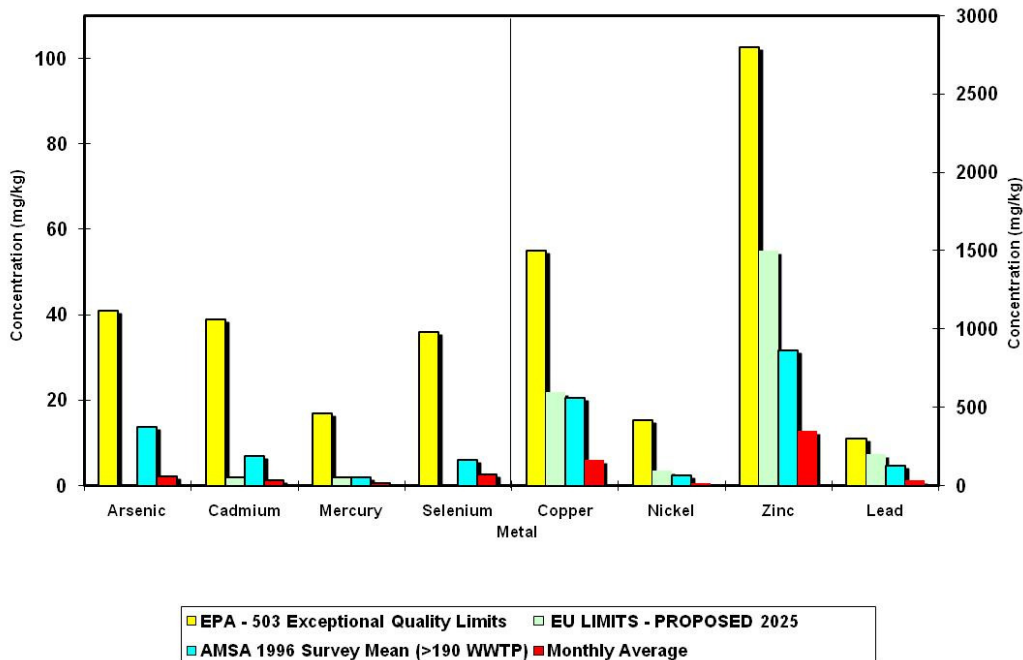
Average Daily Hauling by Contractor for September, 2010





The graphs below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of July 2010. As can be seen in the graphs, the Blue Plains levels are considerably below the regulated exceptional quality limits, the AMSA average levels surveyed in 1996, and even the proposed 2025 European Union (EU) limits. The EU limits are considerably more conservative than the USEPA limits, and Blue Plains biosolids metals content is lower than the EU standards as well.

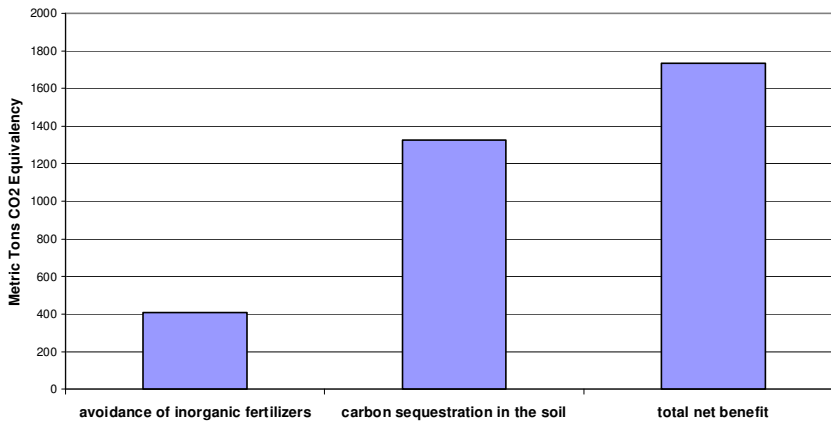
BLUE PLAINS BIOSOLIDS METALS COMPARISON AUGUST 2010



Environmental Benefits

No biosolids went to landfills in August. The tonnage coming directly from the plant equaled 27,934 tons of biosolids land applied in August. 829 tons went to composting. Taking into account the fuel required to transport biosolids to the field, the net benefit of the land applied material is 1737 metric tons CO₂ equivalent avoided emissions. This is equivalent to taking 3,938,612 car miles off the road in the month of August (assumes 20 mpg, 19.4 lb CO₂ equivalent emissions/gallon gas – EPA estimate). The cumulative total avoided carbon emission since January, 2007 is 63,515 metric tons CO₂ equivalent.

**DCWASA Biosolids Recycling Program
Greenhouse Gas Balance Benefits
August 2010 Totals**



September Highlights

Staff attended a meeting on 9/2 with the Maryland Department of the Environment (MDE) to discuss the proposed fee structure for biosolids land applied, transported, or stored in Maryland. Current fees are \$1/wet ton in-state, and \$2/wet ton for out-of-state generators. MDE is proposing a fee increase to \$2.50/wet ton for all generators.

DCWATER biosolids was land applied in Campbell County, Virginia this month for the first time in over two years. Campbell County has been very controversial, with vocal opposition to biosolids recycling. The application to a farm in the county occurred without incident or complaint, and with balanced media coverage of the event.

Staff attended a regional biosolids-to-energy meeting on 9/14 at the Alexandria Sanitation Authority. DCWATER is participating in a regional feasibility study to look at technologies that might be suitable and economical for power generation. The program

manager presented several potential technologies that might be worth pilot-testing on a small scale. DCWATER staff indicated that we will have digested material after the new digester/thermal hydrolysis project is completed. If any of the technologies are deemed feasible and tested thoroughly, DCWATER may divert a portion of the land applied material for energy production.

Staff hosted a Chinese delegation on 9/20 for a DCWATER biosolids recycling discussion. The Chinese delegation was interested in gaining details about our 1200 ton per day biosolids recycling program.

Map of Blue Plains Biosolids Applications and Agricultural \$'s for August 2010

