



Response to Questions on the 2016 LOBs

Request By: Supervisor Herrity

Relevant LOB(s): N/A

Question: What is the amount paid to other wastewater utilities?

Response:

The Wastewater Management Program treats generated wastewater primarily through six regional wastewater collection and treatment plants. One of the six regional plants is the County owned and operated Noman M. Cole, Jr. Pollution Control Plant (NCPCP), which is currently permitted to treat 67 million gallons per day (mgd) of flow. Other regional facilities where the County has purchased treatment capacity include the District of Columbia Water's Blue Plains Treatment Plant with 31 mgd capacity; Alexandria Renew Enterprises Treatment Plant with 32.4 mgd capacity; Upper Occoquan Service Authority's Treatment Plant with 22.6 mgd capacity; Arlington County's Treatment Plant with 3 mgd capacity; and Loudoun Water's Broad Run Plant with 1 mgd capacity. Fairfax County utilizes all of these facilities to accommodate a total capacity of 157 mgd.

The regional treatment approach takes advantage of economies of scale in wastewater treatment and ensures the economical and efficient operation and management of the program. The Wastewater Management Program pays for a portion of the operating and capital expenditures of the wastewater collection and treatment plants.

The following tables provide specific information on Fairfax County's payment of both operating and capital expenditures for each wastewater utility. It should be noted that there was no operational payment to Loudoun Water in FY 2015 based on meter issues and both parties agreed that Fairfax could forgo payment that year.

In addition, there was no capital payment to Alexandria Renew Enterprises in FY 2007, as Fairfax County's expenses were supported by grant funding. Fairfax County's payment for major plant upgrades at the Upper Occoquan Service Authority (UOSA) plant is provided by participating in the UOSA bond sales. Therefore, the UOSA expenditures listed below represent specific pump station and sewer line improvements in FY 2008, FY 2011, FY 2012 and FY 2013, which were not supported by bonds. In addition, the \$20.9 million payment to Loudoun Water in FY 2011 is associated with the purchase of 1.0 million gallons per day of capacity at the Loudoun Water plant. Finally, capital payments can vary from year to year, based on the pace of the capital programs in each jurisdiction. Estimating wastewater capital project expenditures is difficult due to the complexities of industrial type projects at treatment plants. Project schedules shift and each jurisdiction is in various design or construction phases of multiple projects. Since FY 2012, Alexandria Renew Enterprises and DC Water and Sewer Authority have been focused on intensive



construction in order to complete projects that support the Enhanced Nitrogen Removal permit requirements. From FY 2007 to FY 2013, Arlington County Water was in the construction phase of its Enhanced Nitrogen Removal permit requirements.

Operating Expenses

Fiscal Year	Alexandria Renew Enterprises	Arlington County Water	DC Water and Sewer Authority (Blue Plains)	Upper Occoquan Service Authority	Loudoun Water	Total
FY 2006	\$13,595,553	\$1,391,823	\$9,051,453	\$11,015,818	\$564	\$35,055,211
FY 2007	\$13,336,025	\$1,634,568	\$9,279,874	\$12,233,492	\$456	\$36,484,415
FY 2008	\$14,125,041	\$1,502,058	\$11,868,018	\$12,634,484	\$462	\$40,130,063
FY 2009	\$14,170,985	\$1,595,998	\$12,516,382	\$13,171,944	\$476	\$41,455,785
FY 2010	\$13,840,642	\$1,607,662	\$12,279,110	\$12,944,970	645	\$40,673,029
FY 2011	\$13,221,642	\$1,700,523	\$13,492,628	\$13,187,574	\$645	\$41,603,012
FY 2012	\$12,836,900	\$2,224,503	\$13,257,118	\$12,045,467	\$640	\$40,364,628
FY 2013	\$12,786,521	\$2,174,228	\$13,214,346	\$12,635,433	\$640	\$40,811,168
FY 2014	\$13,133,545	\$2,225,036	\$11,815,951	\$12,276,384	\$640	\$39,451,556
FY 2015	\$13,380,703	\$2,711,644	\$15,016,549	\$12,687,555	\$0	\$43,796,451
Total	\$134,427,557	\$18,768,043	\$121,791,429	\$124,833,121	\$5,168	\$399,825,318

Capital Expenses

Fiscal Year	Alexandria Renew Enterprises	Arlington County Water	DC Water and Sewer Authority (Blue Plains)	Upper Occoquan Service Authority	Loudoun Water	Total
FY 2006	\$4,734,196	\$154,026	\$5,954,948	\$0	\$0	\$10,843,170
FY 2007	\$0	\$5,349,504	\$6,248,603	\$0	\$0	\$11,598,107
FY 2008	\$865,109	\$5,193,279	\$7,900,506	\$3,153,767	\$0	\$17,112,661
FY 2009	\$15,438,711	\$9,570,140	\$8,783,339	\$0	\$0	\$33,792,190
FY 2010	\$11,865,568	\$7,056,697	\$12,851,793	\$0	\$0	\$31,774,058
FY 2011	\$467,620	\$3,215,721	\$9,356,083	\$248,395	\$20,942,294	\$34,230,113
FY 2012	\$7,951,553	\$2,250,636	\$24,399,400	\$3,973,530	\$0	\$38,575,119
FY 2013	\$9,757,751	\$3,107,056	\$27,684,878	\$4,887,136	\$0	\$45,436,821
FY 2014	\$32,916,466	\$1,022,149	\$31,359,095	\$0	\$0	\$65,297,710
FY 2015	\$23,490,943	\$34,227	\$26,229,554	\$0	\$0	\$49,754,724
Total	\$107,487,917	\$36,953,435	\$160,768,199	\$12,262,828	\$20,942,294	\$338,414,673