

Department	Class	Fiscal Year(s)	Additional Adjustment Amount	Purpose	Detailed Support of Each Adjustment	Responses in Information Requests Summary																								
Finance	100	2017 to 2021	\$56,000 to \$64,000	Inclusion of an additional accountant position.	The PWD Finance Division requested additional staffing to support the Financial Planning and Analysis team. This position will help assist with conducting feasibility studies and research for long range planning for the Department.	The PWD Finance Division requested additional staffing to support the Financial Planning and Analysis team. This position will help assist with conducting feasibility studies and research for long range planning for the Department.																								
	200	2017 to 2021	\$3.55 Million	Additional Stormwater Management Incentive Program (SMIP) and Green Area Retrofit Program (GARP) costs.	Regulatory compliance program established to help the Department meet the Consent Order and Agreement.	PF 1-8, PA EXE-156 (b). Based upon awarded and completed projects to date under the Stormwater Management Incentives Program (SMIP) and Green Acres Retrofit Program (GARP), the average cost for a private greened acre is \$90,000. The average public project cost per greened acre is \$300,000, based upon PWD construction/design contracts to date. Please also refer to the previously provided response to PA-EXE-156 (b).																								
	200	2016 to 2017 2018 to 2021	\$4.0 Million \$1.27 Million	City Grants (contra revenue credits) based on historical experience. FY 2018 to FY 2021 projection reduced to reflect the elimination of the existing City Grant program upon the implementation of the Affordability Program.	See, PWD St.-8 - Direct Testimony and Exhibits of Raffells Financial Consultants, Inc.	Existing WRAAP City Grant Program. It is an adjustment (revenue reduction) as it was not previously accounted for in COS.																								
	200	2017 2018 to 2021	\$1.2 Million \$0.6 to \$0.7 Million	Additional Basis2 support for the implementation and annual maintenance associated with the Affordability Program.	See, PWD St.-8 - Direct Testimony and Exhibits of Raffells Financial Consultants, Inc.	PA-RDC 50, PA-RDC 51, & PA-ID#H. See response to PA-RDC-50 and PA-RDC-51. Table excerpt from PA-RDC-50: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Category</th> <th>Requirement</th> <th>Unit Cost</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Business Analyst</td> <td>2 person years</td> <td>\$225,000</td> <td>\$450,000</td> </tr> <tr> <td>Programmer</td> <td>3 person years</td> <td>\$225,000</td> <td>\$675,000</td> </tr> <tr> <td></td> <td></td> <td></td> <td>\$1,125,000</td> </tr> </tbody> </table> Table excerpt from PA-RDC-51: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Category</th> <th>Requirement</th> <th>Unit Cost</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>IT Support Staff</td> <td>2.5 FTEs</td> <td>\$225,000</td> <td>\$562,500</td> </tr> </tbody> </table>	Category	Requirement	Unit Cost	Total	Business Analyst	2 person years	\$225,000	\$450,000	Programmer	3 person years	\$225,000	\$675,000				\$1,125,000	Category	Requirement	Unit Cost	Total	IT Support Staff	2.5 FTEs	\$225,000	\$562,500
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800	2017 2018	\$1.8 Million \$3.5 Million	Reimbursement to the General Fund for an upfront payment to construct a combined sewer outfall.	See, PWD St.-2 - Direct Testimony and Exhibits of Melissa LaBuda Exhibit ML-7, PWD Financial Statements, Note #19	Under Section 10 of SugarHouse's (SH) tax settlement agreement with the City of Philadelphia, SH is entitled, to offset against its tax settlement payments the costs of its work on the former Laurel Street Combined Sewer Overflow (CSO). The offset occurs over 5 years and is estimated to be approximately \$3.5 million/year. The Water Department must make the General Fund whole for the amount of the offsets. This is because the Combined Sewer Overflow work benefits PWD. Not all of the reimbursement is capital eligible and as such must be paid from Water Operating.																									
100	2017 to 2021	\$0.4 Million	Additional staffing positions (Construction Projects Technician, Executive Assistant, Head of Security, and three security staff).	The PWD Human Resources Division requested additional staffing to support the Security team. Please see the City of Philadelphia's Personnel webpage for Civil Service Job Specifications	The PWD Human Resources Division requested additional staffing to support the Security team. Please see the City of Philadelphia's Personnel webpage for Civil Service Job Specifications																									
200	2017 to 2021	\$1.0 Million to \$1.1 Million	Facilities administration costs, which had been inadvertently dropped from the FY 2016 budget and need to be replaced.	See, attachment SI-16b Mayor's Operating Budget in Brief for FY 2016 to demonstrate how this cost was omitted in FY16 compared to FY15	\$998,000 was inadvertently dropped from FY 2016 budget and has been added back to FY 2017. This budget line item covers the cost for repairs and maintenance at our facilities.																									

Human Resources & Admin

Department	Class	Fiscal Year(s)	Additional Adjustment Amount	Purpose	Detailed Support of Each Adjustment	Responses in Information Requests Summary
Operations	200	2017	\$1.3 Million	Additional costs for one-time maintenance requirements.	BRC increase in insurance payments; NEWPCP increase in Drydocking Recycler for 6 year inspection; Digester Cleaning/Chiller Rental/increase cost of CoGen Maintenance; SWWPCP increase in Digester and Flocculation cleaning, paving and emergency HVAC Repair	<p>ID #4 Some of our plants and facility equipment require a high rate of maintenance. One time maintenance cost included in the cost of service study for 2017, 2018 and 2019 for the operations division include BRC increase in insurance payments; NEWPCP increase in drydocking recycler for 6 year inspection; digester cleaning; chiller rental; increase cost of CoGen Maintenance; SWWPCP increase in digester and flocculation cleaning, paving and emergency HVAC repair. These costs are based off of historical experience and will recur each fiscal year as equipment is old and other equipment requires a higher rate of maintenance.</p>
		2018	\$1.2 million			
		2019	\$0.1 Million			
	2017 and 2021	\$0.5 Million to \$0.6 Million	Additional costs for additional abatements.	Please see response to PA-EXE-26	<p>a. Any of the following are examples of what is being abated:</p> <ul style="list-style-type: none"> If there is a water main break which floods a property, PWD will replace damaged hot water heaters and house heaters through Abatement plumbers on contrast with PWD (other damages are handled through the claims process). Cleanup of properties damaged as a result of a water main break is also paid for through abatement. If there is a sewer blockage which causes sewage to back up into a property, PWD will replace damaged hot water heaters and house heaters through Abatement plumbers on contrast with PWD (other damages are handled through the claims process). Cleanup of properties damaged as a result of sewer blockage is also paid for through abatement. If we have issued a Notice of Defect to a property for a defective lateral or main house drain or a leak on the supply, or service and the property owner does not address it in a timely matter and it is causing an unacceptable health and/or safety condition, PWD will assign an Abatement plumber on contrast to correct the defect. The property is listed to recover the cost but that cannot occur until if and when the property is sold. If a private sewer is defective causing sewage to back up in properties and the property owners connected to the private sewer are not able to address the issue amongst themselves PWD will assign an Abatement plumber to correct whatever is causing the back up. The invoice is divided amongst those connected and the properties are listed if the bill is not paid. If a private water main is leaking and causing damage to public or private property or loss of water to properties and the property owners connected to the private water main are not able to address the issue amongst themselves, PWD will assign an Abatement plumber to replace the leaking pipe. The invoice is divided amongst those connected and the properties are listed if the bill is not paid. 	
2017 and 2021	\$0.5 Million to \$0.6 Million	Costs for phosphoric acid and parts for equipment repair.	NEWPCP increase use of Phosphoric Acid for Secondary Process; increase in quantity and cost of repair parts for aging equipment; SWWPCP equipment for Plant wide valves, pump repair part and actuators	<p>ID #5 The Northeast Water Pollution Control Plant has been experiencing some problems with the microbiological health of the secondary treatment system during cold weather conditions. This problem has occurred at varying levels over the last 4 to 5 years. Phosphorus is necessary to maintain satisfactory microbiological health. Maintaining the correct microbiological populations in the secondary treatment system is necessary for good performance by the facility and in meeting PADEP permit requirements. The request was made to add additional phosphorous (phosphoric acid) to the treatment process during colder weather to increase the low concentrations of phosphorous and strengthen microbiological health in the secondary system. This increase is needed to insure good plant performance in cold weather.</p>		
400	2017 and 2021	\$0.1 Million	Additional equipment costs.	SWWPCP increase for Purchase of LED light fixtures and replacement of air conditioning systems	<p>PA-ID #7. The additional Class 400 equipment of \$0.1 million will be used at the SWWPCP for the purchase of LED light fixtures and replacement of air conditioning systems.</p>	

Department	Class	Fiscal Year(s)	Additional Adjustment Amount	Purpose	Detailed Support of Each Adjustment	PA-ID #8. The three new positions are in the customer field service unit and will be water operations repair helpers. Also, note that the Department made a decision in January 2016 to realign its staffing needs and increase the staffing of the customer field service unit instead of the office of watersheds for FY 2017. This additional staff is needed to enhance customer service.
Planning & Environmental Services	100	2017 to 2021	\$0.8 Million to \$1.4 Million	Additional staffing costs for the Office of Watersheds.	The PWD Environmental Services requested additional staffing to support the Office of Watersheds. Please the City of Philadelphia's Personnel webpage for Civil Service Job Specifications	PA-ID#9. The components and the related costs of the additional stormwater facilities maintenance include both inspection and maintenance of the increased number of stormwater management practices required by the Consent Order and Agreement.
	200	2017 to 2021	\$0.6 Million to \$1.0 Million	Additional stormwater facilities maintenance.	Additional cost related to maintaining bio retention basins, bio swales, infiltration trenches, curb bump outs and other green infrastructure	PA-ID#10. The Philadelphia Water Department has been working with Licensing and Inspection as well as the Streets Department to review, inspect, and enforce all sewer repairs, connections, and backfills. The Joint Plumbing and Sewer Committee has been developing Sewer Connection Regulations and a Sewer Connection Manual. These documents will allow the Department to enforce sound sewer connections which ultimately will reduce sewer cave-ins and damage to the city infrastructure. An average of 1500 permits are applied for annually and are expected to be inspected from start to finish by a newly created inspection division within Projects Control. This group will comprise of six construction projects technicians, one for each streets department district, and one graduate civil engineer supervisor.
Planning & Engineering	100	2017 to 2021	\$0.5 Million to \$0.6 Million	Additional staffing costs for the sewer lateral inspection program.	The PWD Planning & Engineering Division requested additional staffing to support the Engineering division. Please the City of Philadelphia's Personnel webpage for Civil Service Job Specifications	
	200	2017 to 2021	\$0.6 Million to \$0.7 Million	Costs for mark-out of water & sewer infrastructure prior to excavation.	Cost related to properly identifying PWD infrastructure in the right of way	PA Act 287 was created to the public health and safety by preventing excavation or demolition work from damaging underground lines PWD is required to philliscally mark the location of all PWD underground assets within three working days of notice. Out of the 63,275 on call notices that PWD received in 2014, 10,800 required marking. Currently, PWD survey unit crews perform this task as well as performing survey services to close out the Capital Public Works Projects. The goal of this add packaged is to explore the service levels that could be achieved through a one call contract to free up the survey crews to work on providing data to construction to close out project in a more timely manner.
Public Affairs	100	2017 to 2021	\$0.1 Million	Additional staffing costs for Creative Affairs Director.	The PWD Public Affairs Division requested additional staffing to support the Public Affairs division. Please the City of Philadelphia's Personnel webpage for Civil Service Job Specifications	The PWD Public Affairs Division requested additional staffing to support the Public Affairs division. Please the City of Philadelphia's Personnel webpage for Civil Service Job Specifications
City Finance	100	2017 to 2021	\$2.3 Million to \$3.6 Million	Additional costs for pension, pension obligation, and benefits as a result of staffing additions.	The additional hiring detail that requires additional costs for pension, pension obligation, and benefits is supported in the class 100 items in this table.	Please refer to Response Attachment PA-EXE-143 EXE-145 EXE-146 (Response Attachment) for the detailed work papers supporting the derivation of the \$2.3 to \$3.6 million of pension, pension obligation, and benefits costs related to each additional staffing positions. The pension, pension obligation, and benefit costs for the additional staffing position are based on the ratios of the projected annual Total Water Fund pension, pension obligation, and benefits costs to the projected annual Total Water Fund Class 100 Costs (Salaries and Wages)

See, PWD St.-8 - Direct Testimony and Exhibits of Raftelis Financial Consultants, Inc.

Additional staffing to support the Affordability Program.

\$0.9 to \$1.3 Million

2017 to 2021

100

Water Revenue Bureau

Response Provided in PA-ID #13

Position Title	Annual Salary	# of Pos	Salary Cost
Collection Supervisor	34,767	16	620,272
Collection Representative	48,311	2	86,624
Dist. Services Support Clerk	35,285	4	141,000
Total Salary Annual Cost:			857,896
Position Title	Total Salary (All Items)	%	Benefit
Collection Supervisor	620,272	42.97%	266,311
Collection Representative	86,624	42.97%	41,519
Dist. Services Support Clerk	141,000	42.97%	60,612
Total Benefits Annual Cost:			388,442
Position Title	Total Salary	%	CAR
Collection Supervisor	620,272	56.00%	347,232
Collection Representative	86,624	56.00%	54,109
Dist. Services Support Clerk	141,000	56.00%	78,994
Total Indirect (CAP/Cost):			480,335
Position Title	Cost Code	Aux Cost	Costs Charge
Collection Supervisor	4,000	20	80,000
Collection Representative	4,100	2	8,000
Total Salary, Benefits, Indirect and Capital Cost:			1,276,673

*Benefits and Cap. Asset Charges Charged Per Position

See, PWD St.-8 - Direct Testimony and Exhibits of Raftelis Financial Consultants, Inc.

Additional space requirements to support the Affordability Program.

\$0.10

2017 to 2021

200

Water Revenue Bureau