

The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to Narragansett Bay Commission, (NBC), Rhode Island, for its annual budget for the fiscal year beginning July 1, 2016. The GFOA also awarded NBC Special Performance Measures Recognition and Special Capital Recognition. In order to receive the Distinguished Budget award, a governmental unit must publish a budget document that meets program criteria as a policy document, as a financial plan, as an operations guide, and as a communications device. In order to obtain Special Capital Recognition the governmental unit must receive outstanding ratings in Capital Expenditures and Debt by all three reviewers. To obtain Special Performance Measure Recognition the three reviewers must find the Performance Measures to be outstanding. This award is valid for a period of one year only. We believe that the current budget continues to conform to the program requirements, and we will submit it to GFOA to determine its eligibility for another award.



Photo: Conimicut Lighthouse and entrance to Providence River

Contact Information:

Narragansett Bay Commission Division of Administration and Finance One Service Road Providence, Rhode Island 02905

> Telephone: (401)-461-8848 Fax: (401)-461-6540

> > www.narrabay.com



NARRAGANSETT BAY COMMISSION Fiscal Year 2018 Budget

BOARD OF COMMISSIONERS

Narragansett Bay Commission (NBC) is governed by a Board of Commissioners (Board). The Board represents the municipalities in the service area, as well as ten gubernatorial appointments. Empowered with responsibilities ranging from ensuring that NBC operates a balanced budget to approving contracts for improving and sustaining the treatment facilities and wastewater collection system, the Board meets monthly to guide the direction of NBC.

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Raymond J. Marshall, Executive Director and Secretary of the Board



Photo: Double Rainbow over Field's Point

NARRAGANSETT BAY COMMISSION Fiscal Year 2018 Budget

CITIZENS ADVISORY COMMITTEE

The Narragansett Bay Commission's Citizens Advisory Committee (CAC) is a diverse group of dedicated individuals, representing municipalities throughout the Commission's service area, industrial and residential users, environmental organizations and the general public. This committee advises the Board of Commissioners on matters pertaining to sewer user rates, wastewater infrastructure construction, industrial pretreatment, public awareness, and education.

Howard Schachter, Chairman

Lou Blais Harold Gadon Christopher Hamblett Chris Hannifan Phillip Holmes Jean Lynch Chandrasekhar Mohanty Nilesh Patel Michael Quinn Howard Schachter Jane Sherman Dick Wendt



Photo: Harbor Seal in Narragansett Bay

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Executive Director's Message

Fiscal Year 2018 Budget Summary

The Narragansett Bay Commission's FY 2018 Operating Budget demonstrates NBC's continued commitment to provide excellent service at the lowest possible cost. Overall, the FY 2018 Operating Budget is 0.5% lower than the prior year.

The FY 2018 budget reflects an increase in Operating Revenue of 0.2% due to an increase in user fee revenue based upon FY 2017 performance. Non-Operating Revenue is 9.0% less on a year-to-year basis. This is the result of a decrease in Renewable Energy Credit (REC) revenue, late charge revenue and the Transfer from Operating Capital which is partially offset by an increase in investment income.

With respect to expense, budgeted Operation and Maintenance Expense is 0.5% or \$205,366 greater than the prior year. The majority of this increase, 81.6%, is related to operating supplies and expense with the remaining increase due to personnel expense. Budgeted debt service is 3.7% higher than the prior year, reflecting the higher debt service for NBC's Series 2015 B and Series 2016 A bonds. Budgeted Debt Service Coverage is \$11.7 million which is 15.9% lower on a year-to-year basis. Operating Capital is also budgeted 3.1% less than the prior year. The net effect of these changes is a 0.5% decrease in total expense compared to FY 2017.

		FY 2017 Budget	FY 2018 Budget	Percent Change
Revenue				
Operating Revenue	\$	98,449,643	\$ 98,613,926	0.2%
Non-Operating Revenue		7,676,228	6,988,963	(9.0%)
Total Revenue		106,125,871	105,602,889	(0.5%)
Expense				
Operation and Maintenance		41,603,228	41,808,594	0.5%
Debt Service		45,137,622	46,786,894	3.7%
Debt Service Coverage		13,905,521	11,696,723	(15.9%)
Operating Capital		5,479,500	5,310,678	(3.1%)
Total Expense	\$	106,125,871	\$ 105,602,889	(0.5%)

Year-to-Year Operating Budget Comparison

"The mission of the Narragansett Bay Commission is to maintain a leadership role in the protection and enhancement of water quality in Narragansett Bay and its tributaries by providing safe and reliable wastewater collection and treatment services to its customers at a reasonable cost."



Photo: Mallard ducks flying over the Blackstone River

Introduction

The Narragansett Bay Commission (NBC) is pleased to present its FY 2018 operating budget. This budget reflects NBC's dedication to water quality improvement through continued investment in capital improvements, the effective operation of its wastewater treatment and collections system, and water quality monitoring efforts. This budget also demonstrates NBC's commitment to providing excellent service at a reasonable cost to its ratepayers through the careful allocation of resources.

NBC Outlook

NBC's operating and capital budgets are based on the objectives and priorities outlined in NBC's Strategic Plan. The Strategic Plan provides the framework of NBC's long-term priorities over the next ten years. This narrative serves to link the allocation of resources in the FY 2018 budget to the relationship between each program's short-term service level objectives and NBC's long-term strategic goals. This year's budget also reflects the incorporation of GFOA S.M.A.R.T. Goal framework and a transition from output performance measures to indicators based on outcome and efficiency.

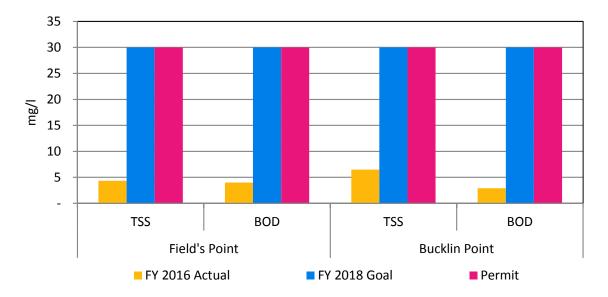
Core Business



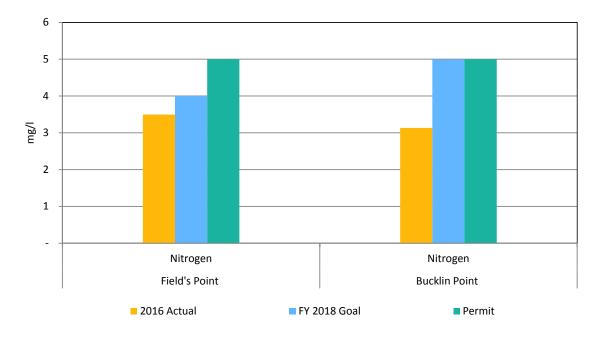
Photo: Blackstone River

NBC's core business goal in FY 2018 and beyond is the successful operation and maintenance of the treatment and collection systems to ensure that federal and state requirements are met or surpassed. NBC's Rhode Island Pollution Discharge Elimination System (RIPDES) permits contain limits of 30 milligrams per liter (mg/l) for both Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS). BOD and TSS levels are wastewater industry standards for measuring the effectiveness of wastewater treatment and the quality of effluent discharged into the receiving waters. The chart on the following page documents NBC's FY 2018 clean water goals of achieving the permitted treatment levels at both the Field's Point Wastewater Treatment Facility (WWTF) and Bucklin Point WWTF.

BOD and TSS Levels



In addition, the Rhode Island Department of Environmental Management (RIDEM) permit limits require NBC to meet seasonal total nitrogen permit limits of 5 mg/l from May to October at both the Field's Point and Bucklin Point WWTFs. Biological Nutrient Removal (BNR) facilities became operational in May 2013 at Field's Point and in August 2014 at Bucklin Point. NBC continues to achieve excellent treatment results at both facilities and the FY 2018 budget supports these efforts with funding for electrical testing at \$299 thousand and a \$25 thousand increase for Ultraviolet (UV) disinfection. Operations staff has optimized treatment which has resulted in lower budgeted volumes for biosolids disposal, natural gas, sodium bisulfite and carbon feed. The FY 2018 budget also includes \$1.6 million for asset replacement at the two WWTFs. In addition, NBC is investing \$11.8 million in various capital improvements at the WWTFs in FY 2018 and on a go forward basis will program \$500 thousand annually to ensure that funding is available to support facility investments as they are identified through asset management and inspection.



Seasonal Nitrogen Levels

This year's budget reflects NBC's continued investment in capital projects required to meet current and future federal and state mandates as well as meet NBC's energy efficiency and sustainability goals. The Capital Improvement Program (CIP) includes programmed expense of \$156.1 million during FY 2019-2023, with additional expense of \$48.0 million in FY 2018 for a total of \$204.1 million. For additional information on the CIP and detailed project descriptions, please refer to the CIP section of this budget document. The following table summarizes NBC's CIP by fiscal year.

	(In Thousands)					
	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total
CSO Phase III Facilities	\$ 12,965	\$ 11,119	\$ 8,164	\$ 6,076	\$ 62,670	\$ 100,994
WWTF Improvements	4,708	10,745	7,677	2,866	2,894	28,890
Interceptor Restoration & Construction	13,392	3,756	1,500	1,500	1,500	21,648
Other	1,832	1,025	730	500	500	4,587
Total	\$ 32,897	\$ 26,645	\$ 18,071	\$ 10,942	\$ 67,564	\$ 156,119

FY 2019-2023 Capital Improvement Program

As has been the case for more than the last decade, the majority of NBC's capital expenditures relate to the Combined Sewer Overflow (CSO) Abatement Facilities. NBC is now in the third and final phase of the federally mandated program. At the conclusion of a reevaluation process in 2015, NBC's Board selected an alternative determined to provide the best combination of affordability and water quality improvement. The Phase III program was subdivided into four phases.

Currently, NBC is conducting an Environmental Assessment required by RIDEM as well as a stress test of the Bucklin Point final clarifiers to determine if the additional flows captured as part of Phase III can be adequately accommodated with the current facilities. Optimization efforts are also underway to determine whether modifications could be made to the Board approved alternative that would meet RIDEM's water quality standards and result in an overall lower estimated program cost to be completed over 25 years. NBC has submitted a revised conceptual design report to RIDEM for approval and NBC's Consent Agreement must be renegotiated based upon the approved plan.



The total pre-design estimate for the four phases is \$795.2 million in 2018 dollars, with expenditures of approximately \$101.0 on Phase III A in the five year period of FY 2019-2023. Phase III A includes the design and construction of a deep rock tunnel in Pawtucket approximately 13,000 feet in length along the Seekonk and Blackstone Rivers, a pump station to convey flow to the Bucklin Point WWTF in East Providence, drop shafts and consolidation conduits. NBC has initiated design and has programmed \$14.7 million for the CSO Phase III A Facilities design in FY 2018. The capital expenditures related to construction are projected to begin in FY 2022.

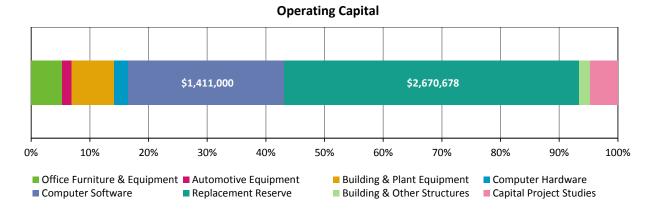
NBC's CIP also includes funding for a number of projects related to the wastewater treatment and collections system and overall there is a 66% increase in non-CSO CIP funding in FY 2018. The most significant projects related to the Field's Point WWTF include replacement of the aeration blowers at \$5.2 million and

improvements to the final clarifiers at \$2.9 million in this year's budget. At Bucklin Point, NBC plans to spend \$1.3 million to replace the digester piping and make other improvements in FY 2018. The most significant collection system projects are the construction of new interceptors in the Town of Johnston along Greenville Avenue and Hartford Avenue at a total cost \$10.4 million. These sewer expansion projects will allow new users to connect to NBC's system and \$23,333 in new user fees have been included in the FY 2018 budget.



Photo: WWTF Aeration Tank

The FY 2018 budget includes \$5.3 million in programmed funding for operating capital to support NBC's core business. As is shown in the chart below, \$2.7 million is for various replacement assets including pumps and vehicles. In addition, \$1.4 million is for computer software related to a new Customer Service application as well as the completion of the Laboratory Information System application implementation. Also included in the replacement reserve category is the storage area network and backup solution replacement at a total cost of \$430 thousand.

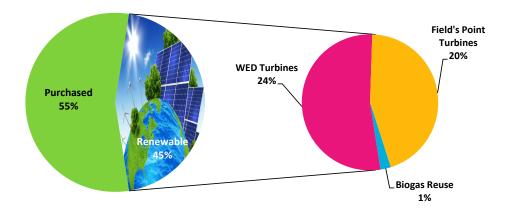


Environmental Performance

The FY 2018 budget reflects the success that NBC has had towards the goal of minimizing environmental impacts through investments in energy efficiency and sustainability initiatives. NBC's renewable energy investments are estimated to generate 45% of NBC's total electricity needs in FY 2018. In addition to the environmental benefits, these renewable resources will generate both savings in electricity expense and revenue from the sale of RECs.

This year's budget also includes the financial impact of one month of operation of the BPWWTF Biogas Reuse Project. This project involves the installation of a cogeneration system that will burn the biogas generated from the anaerobic biosolids digestion process. The \$8.3 million project is eligible for \$512 thousand in principal forgiveness through the Rhode Island Infrastructure Bank (RIIB) and NBC anticipates grants and incentives of \$740 thousand. The cogeneration system is projected to generate 4.8 million kWh annually and is assumed to be operational in June 2018. The FY 2018 budget reflects electricity savings of \$47,483 and REC revenue of \$7,985.

The chart below shows that in FY 2018, 45% of NBC's electricity is from renewable sources with 24% from the Wind Energy Development (WED) turbines, 20% from the Field's Pont turbines and 1% from the Biogas Reuse Project.



Of NBC's three renewable energy sources, the three 1.5 MW Field's Point wind turbines and the Bucklin Point Biogas are considered "behind" the meter and the energy is used on-site. These sources reduce the amount of electricity purchased and are reflected in the operating budget as a reduction in purchased kWh. In FY 2018, NBC budgeted 21.2% of the projected 36.4 million kWh use as derived from these sources. The three 1.5 MW remote WED Turbines purchased in FY 2016 are "net metered' sources. The electricity is produced off-site and is net metered, generating credits that are applied to NBC's invoice for purchased electricity. The projected net metering of the generated electricity is reflected in the budget as a reduction in NBC's electricity expense of more than \$1.0 million or 29.5%.

The FY 2018 budget also supports NBC's environmental strategic goal to continuously evaluate and minimize NBC's impact on the environment. NBC's monitoring program protects public health by ensuring proper operation of the wastewater treatment plants and the quality of receiving waters. NBC received draft Rhode Island Pollutant Discharge Elimination System (RIPDES) permits for both WWTFs in November 2016 and anticipates that the final permits will require additional sampling and analysis. This year's budget includes funding for both the labor and supplies needed to perform daily enterococci testing in addition to current fecal coliform bacteria testing.

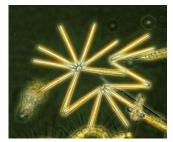


Photo: Diatomic Phytoplankton, Thalassionema

NBC has also allocated resources to support the ancillary services needed for sampling and data analysis efforts. The FY 2018 budget includes approximately \$131,000 for maintenance contracts to ensure continuous operation of critical laboratory equipment including the water purification system, organic carbon analyzer, robotic media dispenser, and other machines. The budget also includes funding for capital assets needed to perform mandated laboratory analysis and sampling. Budgeted laboratory equipment includes replacement of a cyanide analyzer, oil and grease analyzer and a trace element spectrometer at total cost of \$299,800. Budgeted sampling equipment includes auto samplers, multi-parameter sondes and monitoring meters at a cost of \$165,500. The budget also includes \$190,000 to complete the implementation of the new Laboratory Information Management System.

Financial Management



The most significant financial challenge facing NBC is ensuring sufficient resources for operating, maintenance and capital needs while simultaneously mitigating ratepayer impact. This year's budget does not include a rate increase for the first time in sixteen years due to two factors. First, NBC's debt service is anticipated to remain unchanged until new debt is issued in FY 2020 to support programmed capital improvements. NBC also anticipates that the Variable Rate Demand Bonds will continue to remarket at historic low interest rates. Second, NBC's investment in renewable energy and other operating impacts of capital projects have had a positive impact on the operating budget, resulting in higher revenue, lower expense and savings.

With respect to revenue, this year's budget includes increases of \$23,333 in new user fee revenue and \$7,985 in miscellaneous revenue resulting from capital projects to be completed in FY 2018. As is shown in the table below, NBC also anticipates electricity savings of \$47,483 from the BPWWTF Biogas Reuse Project.

FY 2018 Capital Projects with Impact	Savings	Increased Revenue
BPWWTF Biogas Reuse	\$ 47,483	\$ 7,985
Johnston Sewer Improvements/Greenville Avenue	-	23,333
Total	\$ 47,483	\$ 31,318

With respect to expense, budgeted Operation and Maintenance (O&M) Expense is 0.5% more than the prior year. Personnel expense represents 60.4% of total O&M expense and is 0.2% higher on a year-to-year basis. The budget includes contracted step increases for union employees and merit increases for non-union employees. Budgeted overtime is \$75,500 higher in FY 2018 due to staffing requirements for the laboratory and operations. The impact of these increases is mitigated by a net reduction of 3.0 FTEs. NBC's contribution rate on behalf of union employees to the State of Rhode Island Retirement System and union retirement health is unchanged on a year-to-year basis. The budgeted premiums for health are 12.9% higher although the net impact on expense is an increase of 3.6% due to fewer FTEs and enrollment changes from year-to-year. Vision insurance and long-term disability premiums reflect increases of 11.3% and 5.0%, respectively. The dental premium remains unchanged from the prior year.

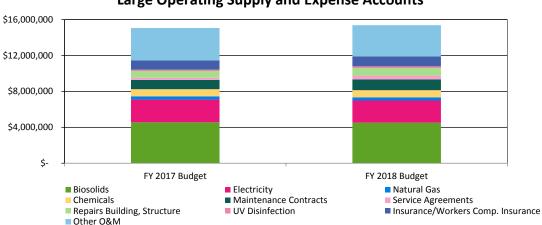
The FY 2018 budget for Operating Supplies and Expense is 1.1% or \$167,621 higher than the prior year. Budgeted biosolids expense is \$40,791 lower on a year-to-year basis. This reflects lower dry ton production at both WWTFs and a 3.0% increase in the contracted rate per dry ton. The electricity budget is \$49,972 lower in FY 2018 and reflects the net effect of renewable energy generation savings and a 5.4% increase in the supply rate. The FY 2018 budget for natural gas is 5.3% lower than the prior year and reflects the 1.6% decrease in budgeted therms along with a 3.8% decline in the rate per therm. Maintenance Contract expense is 15.9% higher in FY 2018 to support service contracts for the Field's Point wind turbines, new laboratory equipment, and

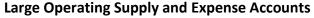


Photo: Interceptor Inspection

third party electric meter reading. Service Agreement expense is 74.5% higher than last year due to budgeted electrical testing at the WWTFs at \$299 thousand. The FY 2018 budget for UV Disinfection expense is \$175,000 which is 16.7% higher than last year and includes lamp replacements. Lastly, Insurance is 8.3% higher in FY 2018 primarily as the result of higher Workers Compensation Insurance expense.

Professional Services comprise 3.0% of the total O&M expense and the FY 2018 budget is \$1,100 or 0.1% less than the FY 2017 budget. This includes funding for regulatory expense, a study of non-union job specifications and compensation, legal services, audit fees, and other services. The following chart shows a year-to-year comparison of the large operating supply and expense accounts.





Although no new debt issuance is planned, budgeted debt service in FY 2018 is 3.7% or \$1,649,272 higher than the prior year due to the debt service associated with the 2015 Series B and 2016 Series A bonds. FY 2018 budgeted debt service coverage is calculated at 25% of debt service and is \$2.2 million less than the prior year. The combined effect on debt service and debt service coverage budget is a reduction of \$559 thousand or 0.9% on a year-to-year basis. Please refer to the CIP Impact and Long-Term Plan section of the budget for more information regarding debt.

Staffing

This year's budget reflects the reorganization of the engineering and operations support functions to position NBC for the future. A new cost center has been created and the personnel and support costs associated with the engineering functions, including permitting, have been transferred to this new section. In addition, the cost center will now report to the Director of the newly titled Construction and Engineering Division. A number of changes to Division and Section names were also implemented to reflect the primary responsibilities as they have been assigned. Another significant organizational change is the reallocation of four positions responsible for the process control and asset management functions to the newly named Operations & Maintenance Services section.

There are five fewer positions budgeted in this year's budget, however, turnover has been reduced from 4.0 FTEs to 2.0 FTEs. As a result, the net number of positions funded in FY 2018 is 267.0 FTEs or 3.0 FTEs less than FY 2017. This year's budget also reflects changes to the organizational chart that occurred in FY 2017 and funding for a number of non-union grade and title changes. The following chart shows the change in FTEs on a year-to-year basis.

Number of FTEs	FY 2017 Budget	FY 2018 Budget	Change FY 2017/2018
Union	135.0	129.0	(6.0)
Non-Union	139.0	140.0	1.0
Total	274.0	269.0	(5.0)
Less: Turnover	(4.0)	(2.0)	2.0
Net Positions	270.0	267.0	(3.0)

Another NBC strategic objective is to recruit, develop and retain highly qualified staff. To this end, NBC offers its employees comprehensive benefits. In FY 2018, NBC will continue to offer a strong benefits package including a High Deductible Health Plan (HDHP) in tandem with partial funding of a Health Savings Account (HSA) or Health Retirement Account (HRA). This year's budget continues to support NBC's Workplace Wellness initiative that includes an incentive component for employees who actively participate in wellness programs. Employees may also participate in physical activity challenges throughout the year to improve wellness. In addition to Workplace Wellness, NBC places a high importance on worker safety.

Customer Service and Communication



Photo: NBC Customer Service Call Center

The FY 2018 budget reflects NBC's continued commitment to remain customer focused and provide excellent service with resources allocated to the timely and accurate monthly billing of NBC's 84,200 customer accounts. NBC has programmed \$900,000 in FY 2018 and \$300,000 in FY 2019 for a Customer Service (CS) application that will replace NBC's legacy system. The CS application will employ new technology that will streamline processes, enhance functionality and better serve customers through expanded on-line services and e-billing capabilities. Also included in this year's budget is \$250,000 for a user fee rate study that will focus on cost recovery and allocation in anticipation of financing construction of the CSO Phase III A Facilities. In terms of communication, the FY 2018 budget includes resources for NBC's Watershed Explorers education program that reaches out to

elementary schools in NBC's service area. The program takes place in the classroom and at various river locations, and culminates with an environmental education conference attended by all of the students.

Fiscal Year 2017 in Review

First and foremost, NBC is excited to report that the water quality benefits resulting from Phase I and II of the CSO Abatement Facilities Project were in large part responsible for the RIDEMs reclassification of shellfishing

waters. Most notably, on May 27, 2017 Conditional Area B, which includes 3,712 acres in upper Narragansett Bay, was changed from conditional to approved status. This means that this area will always be open to shellfishing, ending a 70 year restriction.

RIDEM also announced that the Conimicut Triangle Conditional Area will be merged with Conditional Area A. The new Conditional Area A will be closed after 1.2 inches of rainfall. Previously, Conimicut Triangle waters closed at 0.5 inches, and Conditional Area A waters closed at 0.8 inches. According to RIDEM, "a review of historic rainfall data indicates this change will likely increase shellfishing opportunities in the former Triangle area by 85 days annually, and the remaining waters by 35 days."



Mike McGiveney, President of the RI Shellfisherman's Association highlighted the significance of this accomplishment by stating that "the improvement in water quality will have a tremendously positive effect on our industry and allow greater access to some of the most important shellfish grounds in the Bay. It is an economic and environmental win for all Rhode Islanders." NBC is proud to be a leading contributor towards the achievement of this milestone through the construction and operation of the CSO Facilities that have captured more than eight billion gallons of flow.

In addition to RIDEMs recognition of improved water quality, NBC had a number of other achievements in FY 2017. NBC's cost centers reported 150 accomplishments with 64 or 43% focused on NBC's Core Business. In addition, 24% of the FY 2017 accomplishments related to Financial Management and 12% of the accomplishments related to staffing. The following table outlines the percentage of FY 2017 accomplishments by goal and also the totals by division.

Goals	Executive Affairs	Construction Services	Administration and Finance	Operations and Engineering	Policy, Planning and Regulation	Total	Percent
Core Business	8	5	13	24	14	64	43%
Environmental	0	0	0	2	5	7	5%
Financial Management	5	0	28	2	1	36	24%
Customer Focus	1	0	7	2	5	15	10%
Staffing	1	0	9	6	2	18	12%
Communication	5	0	1	0	2	8	5%
Organizational	1	0	1	0	0	2	1%
Total	21	5	59	36	29	150	100%

FY 2017 Major Accomplishments



NBC's wastewater treatment was exceptional this past year, an accomplishment recognized by National Association of Clean Water Agencies (NACWA). NBC received the Gold Award for no permit excursions at Field's Point and the Silver Award for fewer than 5 permit excursions at Bucklin Point. In addition, the NBC received the Utility of the Future Award from the Water Environment Federation (WEF) and NACWA. One of only 61 utilities in the entire country given the award, NBC demonstrated exceptional progress and performance in the treatment of wastewater and the implementation of water reuse,

watershed stewardship, community partnering and engagement and nutrient recovery. This award clearly identifies NBC as one of the leading wastewater entities in the industry.

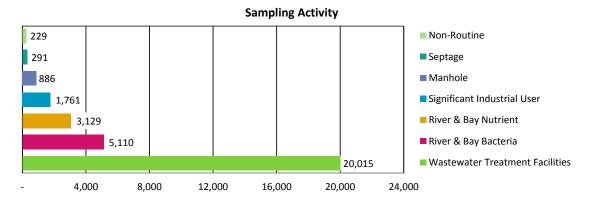
During FY 2017, NBC's Interceptor Maintenance (IM) section inspected one mile of interceptors, 1,200 regulators, numerous catch basins and connector pipes throughout the service area. NBC's IM section also replaced approximately 120 feet of 20" diameter force main and restored 370 feet of interceptors. In

addition, 163 tons of sediment was removed from the collection system and 19 tons of material captured in the CSO netting facilities was removed and prevented from entering the waterbody.

NBC conducted daily sampling at both the Field's Point and Bucklin Point treatment facilities to ensure compliance with the RIPDES permit requirements and federal mandates. NBC continued to monitor the urban rivers twice per week for bacteria in support of the nine minimum controls program. Staff collected a total of 31,421 samples, with the majority or 63% related to WWTF monitoring. In addition, in order to assess water quality, 16% of the samples related to river and bay bacteria, while 10% of the samples collected were for river and bay nutrients. The following chart shows the number of samples collected by type.



Photo: Removing Catch Basin Sediment



Two NBC Environmental Scientists were also recognized for their research by the New England Estuarine Research Society (NEERS) with invitations to present their work at the fall 2016 conference. Topics presented included "Evaluations of Bay Bacteria After Phase I and II of the Narragansett Bay Commission's CSO Abatement Project" and "Receiving Waters Monitoring Following WWTF Upgrades to reduce Nitrogen Loading."

In FY 2017, NBC completed eight capital projects at a cost of \$44.2 million. One of the largest projects, the 36,790 square foot Water Quality Science Building (11900), was completed at a cost of \$21.9 million. Staff moved into the new state-of-the-art laboratory and environmental analysis facility in July 2016. Another large project, the Wind Energy Development Turbines (50500) was also completed in FY 2017 at a cost of \$19.0 million. The completed projects are summarized in the following table.

Project Number	Project Name	Cost _ (In thousands) _
11900	Water Quality Science Building	\$ 21,906
13100	NBC Energy Efficiency Upgrades	865
81300	BPWWTF Flood Protection	423
1140400	Facility Evaluation for Climate Resiliency	5
50500	Wind Energy Development Turbines	19,000
30473	Lockbridge and Valley Street Inspection & Cleaning	534
30474	BVI Inspection & Cleaning	80
30462	NBC East Providence Interceptor Improvements	1,381
	Total	\$ 44,194

From a financial perspective, FY 2017 was a strong year for NBC. NBC projects that for the second consecutive year, user fee revenue will not be lower than the PUC approved revenue. In fact, NBC is projecting that user fee revenue will be higher than budgeted due to higher billable consumption. NBC's

investment income is projected to be \$86 thousand or 1730% higher than budgeted due to higher interest rates and a change in investment strategy.



Photo: One of Three Field's Point Wind Turbines

NBC also benefitted financially in FY 2017 from its renewable energy projects. The performance of the WED turbines exceeded projections, generating additional electricity net metering credits of \$234 thousand. The Field's Point wind turbines also generated 349 thousand kWh more than was budgeted, further reducing electricity expense. Although the wind turbines produced higher than budgeted kWh, REC revenue is expected to be \$348 thousand lower than budgeted due to a decrease of approximately 60% in the weighted average rate per REC. NBC was the recipient of the US Department of Energy's 2017 Better Project Award in recognition of the role that the Field's Point wind turbines played in saving energy on a regional basis.

Overall, NBC anticipates finishing FY 2017 well under budget. In addition to the electricity savings mentioned above, there were more vacancies during the fiscal

year which caused personnel expense to be 6.3% or \$1.6 million below budget. Other significant savings in operation and maintenance expense were realized from lower than budgeted biosolids dry ton production, lower natural gas usage and lower insurance expense as a result of reduced flood insurance premiums.

NBC continued to benefit from historic low short-term interest rates and is projected to realize interest savings of more than \$1.3 million on the Variable Rate Demand Bonds (VRDBs). NBC also replaced its Letter of Credit (LOC) at a favorable rate for a five-year term. This will save NBC ratepayers over the term of the contract and will ensure continuity. NBC did not issue any new debt in FY 2017 but did participate in a RIIB refunding that should result in savings to NBC's ratepayers.

NBC received the GFOA Distinguished Budget Presentation Award for the fifteenth consecutive year for NBC's FY 2017 Budget. The FY 2017 Budget was also recognized by GFOA as Outstanding as a Financial Plan, Outstanding as an Operations Guide, Outstanding as a Communications Device along with Special Capital Recognition and Special Performance Measures Recognition. NBC enhanced the budget process with the implementation of an internal web page that provides users with a calendar, fillable forms, instructions, user guides and other tools. NBC also received the Certificate of Achievement for Excellence in Financial Reporting for Fiscal year 2016 for the fifteenth consecutive year. NBC's consistent sound financial performance is evident with 25 consecutive years of operating surpluses.

In FY 2017, the NBC's Customer Service department completed timely and accurate billings of NBC's 84,200 accounts, billing more than \$96 million in user fees. The section also received and responded to an average of 4,500 customer calls each month and collected approximately \$400,000 per month through the Water Shut-off Program. NBC's collection activity has also been effective, with accounts receivable less than the prior year.

NBC continued to protect its investments in technology with the replacement of critical server infrastructure at the main office, along with installation of redundant fiber networks and an expanded wireless mesh network at Bucklin Point. The upgrade to the legacy pretreatment system was completed, progress continued with the implementation of the new Laboratory Information System and the current version of Hansen was installed. In addition, the databases were migrated to the latest version of Oracle. Lastly, as part of the effort to protect NBC from malicious activity, more than 3.2 million items were scanned. NBC's firewall blocked more than 1.2 million emails including more than 14,000 with viruses.

From a human resources standpoint, NBC received the 2016 Best Places to Work in Rhode Island Award, which involved the completion of a workplace assessment process including employee surveys and an inventory of company benefits, policies and offerings. NBC conducted quarterly investment meetings regarding its retirement plans and received a favorable determination letter from the IRS with respect to the

non-union defined contribution retirement plan. NBC has also placed a priority on improving the actuarial funded ratio of the non-union defined benefit plan which increased to 77.03% in FY 2016 from 69.79% in FY 2015. Lastly, the vision, long-term disability, health and dental insurance policies were evaluated and renewed.

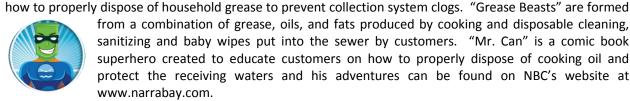
In FY 2017, NBC issued 232 new sewer connection permits and administered the NBC Earth Day River Cleanup Grant program to support initiatives involving 20 non-profit organizations throughout the NBC service area. NBC's technical staff also encouraged developers to use Low Impact Design (LID) techniques for storm water disposal as part of the storm water mitigation program and reviewed ten Projects that employed LID techniques.

In terms of public outreach, NBC conducted 53 educational tours of the FPWWTF and three on-site tours of the wind turbines. NBC also conducted numerous watershed education programs through the NBC's Watershed Explorers program. Through this program, more than 690 students from 13 schools in NBC's service area received monthly lessons and learned about the health of their school's watershed. The students presented their macro invertebrate data projects and student essays at the May 19, 2017 annual NBC environmental conference held at Goddard Park.



Photo: Watershed Explorer Students performing sampling and analysis

NBC also initiated a public relations campaign to educate the public on



from a combination of grease, oils, and fats produced by cooking and disposable cleaning, sanitizing and baby wipes put into the sewer by customers. "Mr. Can" is a comic book superhero created to educate customers on how to properly dispose of cooking oil and protect the receiving waters and his adventures can be found on NBC's website at www.narrabay.com.

Summary

NBC continues to excel in wastewater treatment, environmental leadership and sound financial management, and its efforts have been recognized nationally by many professional organizations and publications. The awards validate NBC's commitment and dedication to the continuous 24 hour effective operation of its facilities, protection of public health, significant investment in new technologies and facilities and ongoing commitment to its ratepayers.

NBC's reputation in the environmental community continues to grow both regionally and nationally. In addition, I have been proud to serve as the 2017 President of the NACWA, the national leading advocate of the clean water industry. I also serve as the Rhode Island wastewater industry representative for the Narragansett Bay Estuary Program (NBEP) Management Committee. This committee forms partnerships with those that conserve and restore natural resources and enhance water quality through community involvement.

In conclusion, during FY 2018, NBC will continue to work to protect its community, ratepayers and all Rhode Islanders through the enhancement of water quality in Narragansett Bay.

Raymond J. Marshall, P.E. **Executive Director**

About the Narragansett Bay Commission

Background

In 1979, the Governor of Rhode Island's Sewage Facilities Task Force reported that the discharge of pollutants into Narragansett Bay, and particularly in the Providence metropolitan area of the Bay, posed problems of such scope and cost that they were beyond the City of Providence's capability to control them. Additionally, the prospect of continued federal funding of sewer construction programs under the Clean Water Act was clouded by the scheduled expiration of the Clean Water Act at the close of the 1982 federal fiscal year.

Consequently, the Task Force recommended, and the Rhode Island General Assembly in 1980 approved, the establishment of a regional district commission to correct and minimize pollution discharges into the Upper Bay. The Narragansett Bay Water Quality Management District Commission, renamed the Narragansett Bay Commission in 1999, was authorized to acquire, operate and upgrade the metropolitan Providence wastewater collection and treatment facility.

On January 1, 1992, the former Blackstone Valley District Commission was merged into NBC, expanding the service area.

The Commission

NBC is governed by a 19 member Board of Commissioners (Board). The Board consists of nine members representing the municipalities in the service area, as well as ten gubernatorial appointments. Empowered with responsibilities ranging from ensuring that NBC operates with a balanced budget, to approving contracts for improving and maintaining the treatment facilities and wastewater collection system, the Board meets monthly to guide the direction of NBC.

The NBC is regulated by the Rhode Island Public Utilities Commission (PUC). Accordingly, both the Board and the PUC must authorize adjustments to sewer user rates. NBC funds its operation and maintenance expense as well as debt service through user charges.

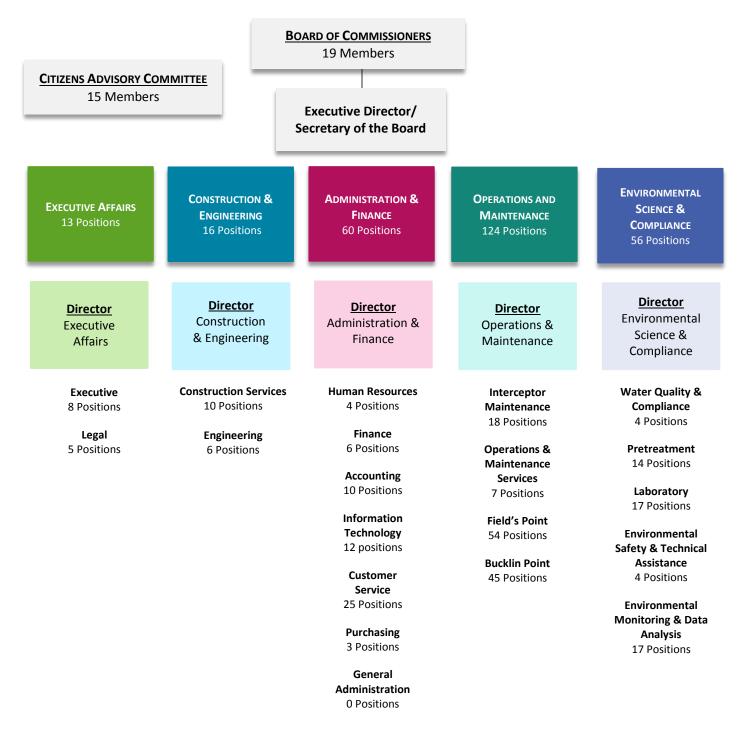
NBC Organization

NBC is comprised of a team of dedicated professionals who are committed to the fulfillment of NBC's goals. NBC's organizational structure consists of five Divisions headed by Division Directors who report to the Executive Director. Within each Division there are sections headed by Program Managers who report to the Division Director.

An organizational chart of NBC, located on the following page, depicts the relative budgetary size of each Division. This year's budget supports a reorganization that was developed to address succession planning and the anticipated demands associated with managing the complex CSO Phase III program. In addition, the new organizational structure aligns the resources required to manage NBC's maturing wastewater treatment and collection system through the consolidation of the asset management, process control and flow monitoring functions. Additional discussion of the reorganization is on 62 through 64 of the Budget Summary section.

The next page contains a brief description of the Divisions and the responsibilities of each program or section level.

NBC Organization



FY 2018 Operating Budget by Division



Program Level Operational Responsibilities Overview

Executive Affairs Division	CONSTRUCTION AND ENGINEERING DIVISION	
Oversee all aspects of policy development, strategic planning and agency management responsibilities.	The Construction and Engineering Division is responsible for the planning, design and construction of capital	
Executive: Oversee all aspects of policy development, strategic	improvement projects related to NBC's infrastructure.	
planning, labor relations and agency management responsibilities. Legal: Provide legal advice to staff regarding issues that may	capital improvement projects including bidding, contract award	
arise in the course of NBC's business activities.	Engineering: Plan and design facilities necessary for the collection and treatment of wastewater and issuance of sewer connection permits.	

ADMINISTRATION AND FINANCE DIVISION

Provide administrative and support functions, including the finance, customer service, purchasing, information technology, human resources, accounting, and general administration functions.

Human Resources: Administer and process employee records, recruitment & retention, workers' compensation, employee benefits and collective bargaining agreements.

<u>Finance</u>: Ensure overall sound financial management including the operating budget, CIP, debt management, rate setting, NBC retirement plans, cash management, and compliance.

Accounting: Maintain NBC financial records, issues monthly financial statements in accordance with GAAP, payroll and payment processing and IRS reporting.

Information Technology: Maintain all aspects of networks, telecommunications, hardware, software and databases for the entire enterprise.

<u>Customer Service</u>: Provide accurate and timely billing and collection of approximately 83,650 accounts in the NBC service area and all other aspects of providing excellent customer service.

Purchasing: Ensure the legal, timely and cost-effective purchasing of goods and services and supports renewable energy efforts.

<u>General Administration</u>: Overhead section that includes expense for debt service, maintenance of the corporate office building and other overhead items.

OPERATIONS AND MAINTENANCE DIVISION	ENVIRONMENTAL SCIENCE AND COMPLIANCE DIVISION
Responsible for operating and maintaining NBC's infrastructure.	Responsible for ensuring agency compliance with state and federal regulations and permits, agency energy and
Interceptor Maintenance: Maintain interceptors and facilities	environmental sustainability and water quality science.
hich collect and transport wastewater in the NBC District to generative treatment facilities.	Water Quality & Compliance: Ensure agency compliance with all EPA and DEM environmental permits and regulations and develop sound environmental science to support NBC's mission.
wastewater treatment facilities' processes, ensure compliance with all State and Federal regulation requirements, and maintain the asset management program.	<u>Pretreatment</u> : Maintain the federally mandated pretreatment program and protect NBC's wastewater treatment plants and infrastructure from toxins and pollutants.
Field's Point: Operate and maintain the Field's Point facilities to produce the highest quality effluent in the most efficient manner.	Laboratory: Ensure the production of high quality analytical data through the use of diagnostic measurements in order to comply with federal and state regulations.
Bucklin Point : Operate and maintain the Bucklin Point facilities to produce the highest quality effluent in the most efficient manner.	Environmental Safety & Technical Assistance : Provide pollution prevention, energy efficiency, conservation, environmental compliance, sustainability and health and safety assistance.
	Environmental Monitoring & Data Analysis: Monitor water quality throughout NBC's service area, NBC's treatment facilities, collection system, commercial and industrial facilities, and upper Narragansett Bay. Analyze and report resultant data internally, as well as externally to regulatory authorities,

stakeholders and the interested public.

Governmental Regulation

In addition to Public Utilities Commission (PUC) oversight, NBC is regulated by the Rhode Island Department of Environmental Management (RIDEM) and the U.S. Environmental Protection Agency (USEPA) to ensure compliance with State and Federal Clean Air and Clean Water Acts. NBC has been issued Rhode Island Pollutant Discharge Elimination System (RIPDES) permits for each of its wastewater treatment plants.

State and Federal Compliance Issues

NBC executed a Consent Agreement with RIDEM to implement a federally mandated Combined Sewer Overflow (CSO) Abatement Program. The first and second phases were completed in 2008 and 2012, respectively. NBC's 18 month reevaluation of the third and final phase, as set forth in the RIDEM approved 1998 Conceptual Design Report Amendment, concluded in June 2015 and resulted in the selection of an alternative that the Board determined to provide the best combination of affordability and water quality improvement. The reevaluation report was submitted to RIDEM in July 2015 and RIDEM provided comments to NBC in March 2016. Subsequent to the reevaluation report and development of the revised plan, NBC worked to optimize the plan to reduce the cost impact of the Phase III program. Discussions between NBC and RIDEM are ongoing regarding the proposed optimized plan and extended schedule. NBC's Consent Agreement must be renegotiated based upon the RIDEM approved plan.

NBC has a second Consent Agreement with RIDEM for nitrogen limits at both the FPWWTF and BPWWTF. The Consent Agreement requires that NBC achieve a total seasonal nitrogen limit of 5 mg/l from May to October at both facilities. In order to achieve this, NBC constructed new facilities at Field's Point which was completed in May 2013 and at Bucklin Point which was completed in August 2014.

Financial Obligations

As part of NBC's long-term debt issuance, the NBC must comply with Continuous Disclosure requirements including the timely filing of certain financial information, operating data, and certain material events. NBC is also subject to other post-issuance compliance requirements associated with its issuance of tax-exempt debt. NBC must also undergo an annual credit review with Standard & Poor's as part of the Variable Rate Demand Bonds and prior to the issuance of new debt.

Facilities

NBC owns and operates Rhode Island's two largest Wastewater Treatment Facilities (WWTF) along with an extensive infrastructure of interceptors, pump stations, tide-gates and combined sewer overflows. The location of the two wastewater treatment facilities is shown on the following map.



Field's Point Service Area Facilities and Technology

The Field's Point WWTF provides secondary treatment and nitrogen removal for dry weather flow of up to 65 million gallons per day (MGD) and sustained wet weather flow of 77 MGD. The wet weather facilities at the plant provide primary treatment and disinfection for an additional 123 MGD of wet weather flows. Total wet weather treatment capacity at Field's Point is 200 MGD.



Photo: Aeration Tanks at the Fields Point Wastewater Treatment Facility

NBC also owns, operates and maintains three outlying pump stations in the Field's Point

service area; the Washington Park and Reservoir Avenue Pump Stations located within the City of Providence and the Central Avenue Pump Station in Johnston. The Ernest Street Pump Station is located adjacent to the Field's Point WWTF and handles 98% of the flow to Field's Point. The Tunnel Pump Station, also adjacent to the Field's Point WWTF, pumps flow stored in the Phase I CSO Tunnel to the Field's Point WWTF.

NBC maintains 19 permanent flow metering stations that are used to measure flows at various points in the sewer system. In addition, NBC owns and is responsible for the maintenance and correction of 35 CSO's, 32 tide gates and 80 miles of interceptors in the Field's Point Service Area.

Bucklin Point Service Area Facilities and Technology

The former Blackstone Valley District Commission (BVDC) was established by the Rhode Island General Assembly in 1947 to service the Blackstone Valley area. State legislation effectuated the merger of BVDC into NBC on January 1, 1992.



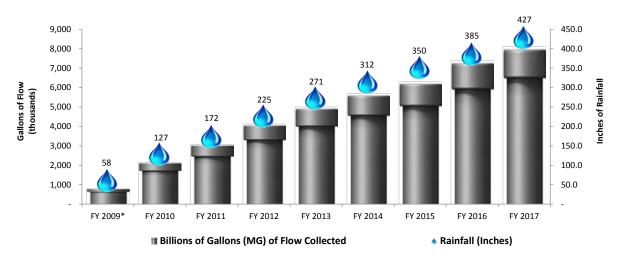
Photo: Bucklin Point Wastewater Treatment Facility

Upgrades of the Bucklin Point WWTF were completed in 2006 and 2013 to provide nitrogen removal and other improvements. The facility provides secondary-treatment with nitrogen removal for flows up to 46 MGD and primary treatment for flows up to 116 MGD.

NBC also owns and operates the Omega Pump Station in East Providence and the Saylesville and the Washington Highway Pump Stations in Lincoln. NBC is responsible for 26 Combined Sewer Overflows in the Bucklin Point service area and 30 miles of interceptors.

CSO Phase I Facilities and Tunnel Pump Station

NBC's CSO Phase I Facilities became operational in FY 2009. The centerpiece of the Phase I facilities is a three mile long, 250 foot deep tunnel. During periods of significant precipitation, drop shafts transport combined stormwater and wastewater from various locations into the tunnel for storage until the flows can be pumped to the Field's Point WWTF for safe treatment and discharge. Since its inception, over 8 billion gallons of flow that previously would have overflowed directly into rivers and Narragansett Bay have been stored and treated. The graph below shows the millions of gallons of flow collected and rainfall from FY 2009 to date.





*Facilities operational in November 2008

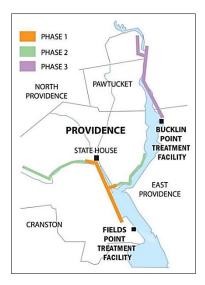
CSO Phase II Facilities

The CSO Phase II Facilities became operational in FY 2015. The most significant components of the Phase II Facilities are two main interceptors in the Field's Point Service Area and a wetlands treatment facility. The Seekonk Interceptor is approximately 7,000 feet along the Seekonk River and the Woonasquatucket Interceptor is approximately 17,200 feet along the Woonasquatucket River. The interceptors convey the flows to the CSO Tunnel constructed in Phase I. Additionally, a wetlands treatment facility was constructed to include a storage tank for small storm flows to be stored until the flow can be pumped into the collection system for treatment and for larger storms, treatment is provided by the wetland.



Photo: WCS01 Gate & Screening Structure

CSO Phase III Facilities



The CSO Phase III Facilities represent the third and final phase of the federally mandated CSO Abatement Program required as part of a Consent Agreement between NBC and RIDEM. As a result of a reevaluation process, the Phase III CSO Program was subdivided into four phases to be constructed over a period of 20 years. Phase III A includes the design and construction of a 13,000 foot long deep rock tunnel in Pawtucket along the Seekonk and Blackstone Rivers and a pump station to convey flow to the Bucklin Point WWTF in East Providence. The program also incorporates Green Stormwater Infrastructure (GSI) facilities to be constructed in each of the four phases to reduce stormwater inflow to the existing CSO system by implementing ground stormwater infiltration projects, with expenditures of \$10 million on GSI in each phase.

The total pre-design estimate for the four phases of the CSO Phase III Facilities is \$795.2 million in 2018 dollars, with expenditures of approximately \$14.7 million in FY 2018 and \$101.0 million in the five year

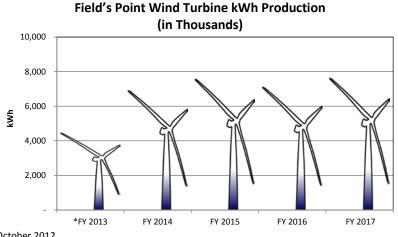
period of FY 2019-2023 in this year's CIP window. A description of the facilities to be constructed in each of the four phases, as well as the estimated costs and schedules are included in the CIP Impact and Long-Term Plan section of the Operating Budget.

Sustainable Energy

In accordance with NBC's environmental performance goals of minimizing environmental impact, NBC plans to maximize energy efficiencies and renewable resources through its Energy Sustainability program. This program involves the identification and implementation of conservation methods, improved efficiency options and the use of sustainable renewable energy resources.

Field's Point Wind Turbines

In October 2012, the Commission began operation of three 1.5 MW wind turbines located at the Field's Point campus. The turbines use wind energy to produce sustainable electricity. The electricity generated is used on-site to support facility operations and any excess is net metered back to the grid to offset billable usage. In addition to \$1.6 million in REC revenue, the turbines have generated more than 36.8 million kWh of clean renewable energy since becoming operational. The following graph below shows the annual electricity production since 2013.



WED (Wind Energy Development) Turbines



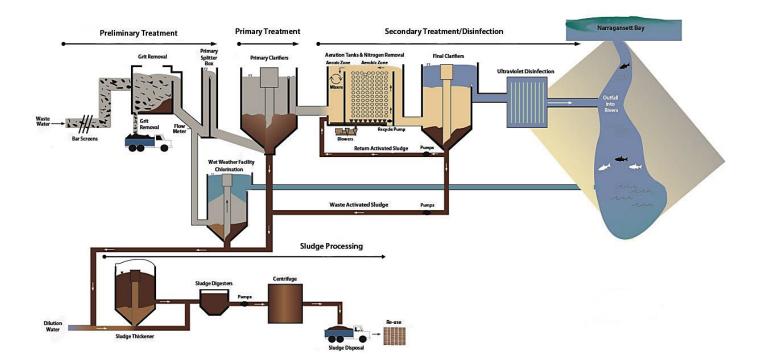
Photo: NBC's "WED 4" turbine in Coventry, RI

In 2016, NBC expanded its renewable energy resources and purchased three 1.5 MW wind turbines at a remote site located in Coventry, RI. Two of the turbines, WED 3 and 4 were purchased in July 2016 and a third turbine, WED 1 was purchased in October 2016. The WED turbines generate clean renewable wind energy which is net metered. The energy credits are then applied to NBC's electricity bills. In addition, the WED turbines generate revenue through the sale of RECs.

Wastewater Treatment Process

NBC works hard to protect the water quality of Narragansett Bay and its tributaries. NBC's task is to protect public health by taking billions of gallons of dirty water every year and making it clean. This is accomplished by operating 24 hours per day and 365 days per year.

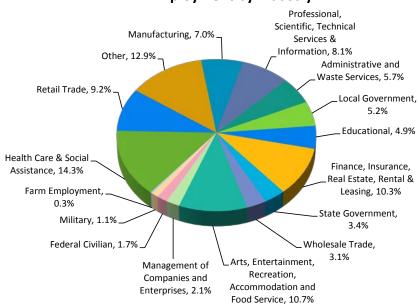
The schematic below shows the state-of-the-art treatment process at the Bucklin Point WWTF.



Demographics

Rhode Island Economy

According to the Rhode Island Department of Economic Development, the economic base of Rhode Island continues to shift from manufacturing and goods to service industries over the last decade. The chart below shows employment by industry for the calendar year 2015.

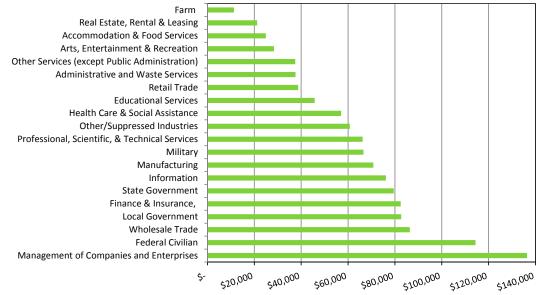


Employment by Industry

*Source: United States Regional Economic Analysis Project Industries by State 2015

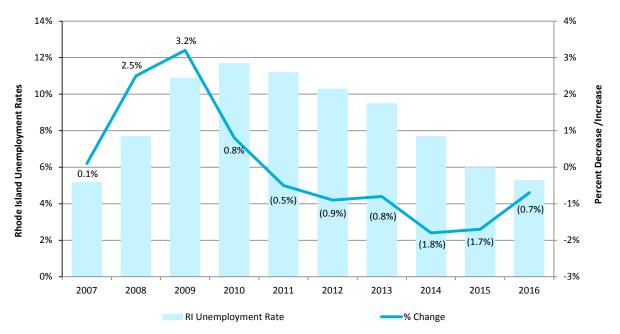
Employment in Rhode Island reflects the national trend towards higher employment in the services sector. The chart below illustrates Rhode Island's average annual earnings per employee in each major industry for 2015.





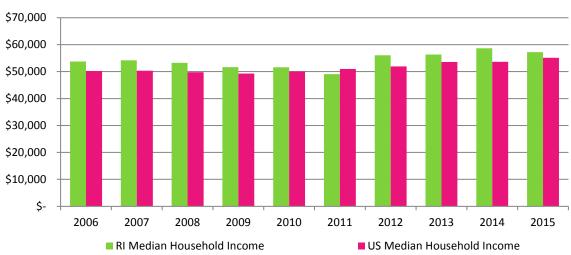
*Source: United States Regional Economic Analysis Project Industries by State 2015

The graph below, compiled from data from the Bureau of Labor Statistics, shows historical unemployment figures over the past ten years for Rhode Island. The Rhode Island unemployment rate has decreased in each of the last six years from a peak rate of 11.7% in 2010 to 5.3% in 2016.



Rhode Island Unemployment Rates

The graph below shows the median household income in Rhode Island for the years 2006-2015 compared to national statistics. Rhode Island's median household income remained above the national figure from 2006-2010, and then dropped to approximately 2% below the national level in 2011. Since that time, the Rhode Island median household income has remained above the national median by approximately 4% or \$2,084 in 2015 CPI-U-RS (Consumer Price Index Research Series Using Current Methods) adjusted dollars, with median household income of \$57,201.



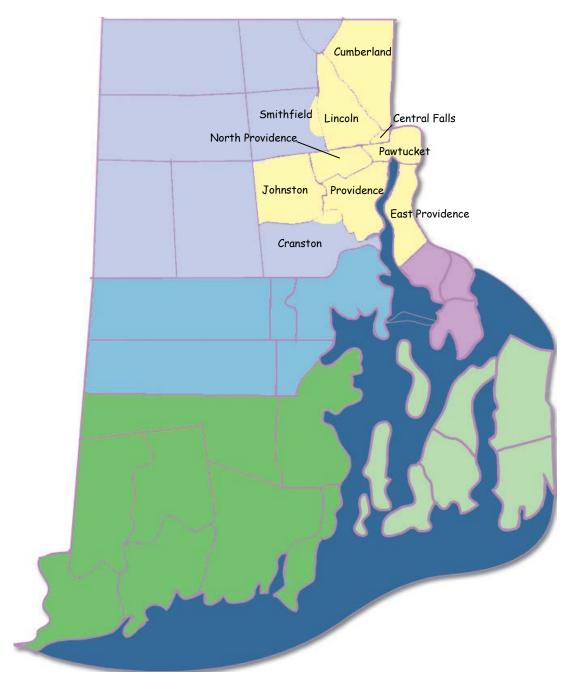
Median Household Income - Rhode Island vs. United States

*Source: United States Census Bureau – Median Household Income by State – Two-Year Moving Averages: 2014-2015

^{*}Source: Bureau of Labor Statistics. RI state-wide Unemployment Rates Seasonally Adjusted.

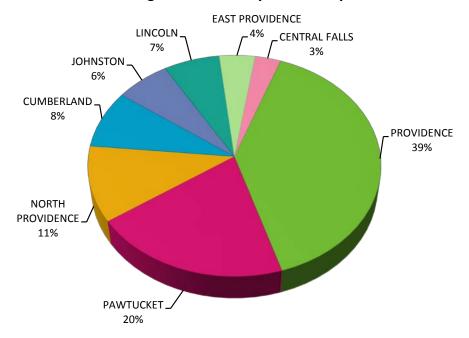
NBC Service Area

NBC provides reliable, cost-effective wastewater collection and treatment services to over 360,000 residents and approximately 7,740 businesses in the metropolitan Providence and Blackstone Valley areas. These communities include: Providence, North Providence, Johnston, Pawtucket, Central Falls, Cumberland, Lincoln, the northern portion of East Providence and small sections of Cranston and Smithfield. The map below shows the NBC's service area.



NBC Service Area

NBC's customer base consists of residential and non-residential customer classes, which include commercial and industrial users. Of the eight major communities serviced by NBC, Providence, Pawtucket and North Providence account for the majority of users with 70% of the accounts. The following chart illustrates the distribution of accounts across the eight communities.



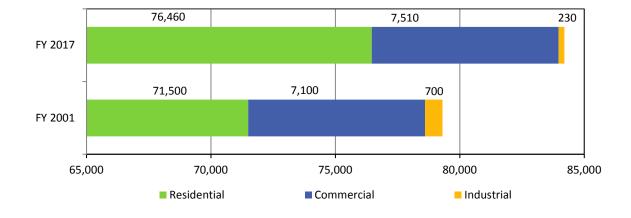
Percentage of Accounts by Community

The residential customer class has approximately 76,460 accounts, while the non-residential customer class has approximately 7,740 accounts. The largest NBC customers are primarily service and education providers. The ten largest customers based on FY 2017 projected billings are also listed in the table below:

	Top Ten NBC Customers				
	Customer	FY 2017 Projected Billing	Percentage of Total Annual User Charges		
1	Providence Housing Authority	\$ 1,649,478	1.70%		
2	Rhode Island Hospital	1,551,623	1.60%		
3	Brown University	1,288,434	1.33%		
4	City of Providence	703,222	0.72%		
5	City of Pawtucket	671,608	0.69%		
6	🐳 Johnson & Wales University	476,452	0.49%		
7	Providence College	472,758	0.49%		
9	Providence School Department	431,381	0.44%		
8	Rhode Island Resource Recover	y 393,560	0.41%		
10	窶 State of Rhode Island	382,796	0.39%		

Source: NBC's billing records

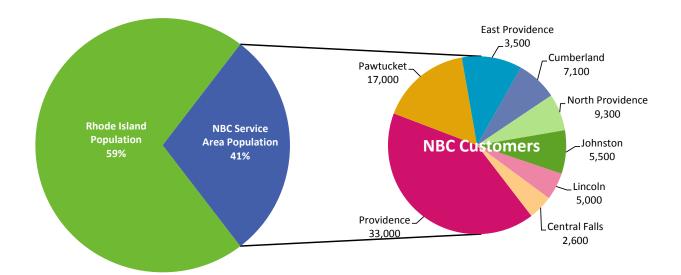
Over the last sixteen years, there has been a 6.2% increase in the number of customer accounts. This is the net effect of a 67.1% decrease in the number of industrial accounts from 700 to 230 which has been offset by a 6.9% increase in the number of residential accounts and a 5.8% increase in the number of commercial accounts.



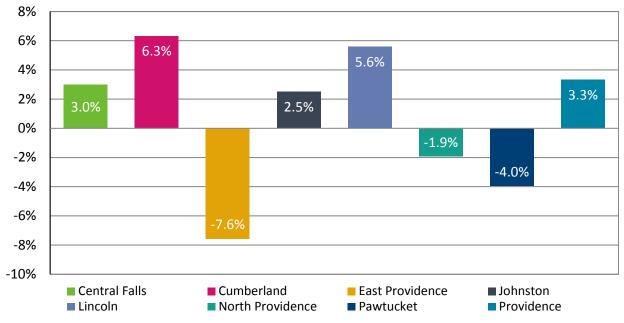
Number of Accounts by Customer Class

NBC Service Area Population and Statistical Information

According to the 2010 United States Census Bureau, the total population for Rhode Island 1,052,567. The graphs below show that NBC services approximately 41% of the State of RI population and that the majority of NBC's customers are in the City of Providence with approximately 33,000 customers followed by the City of Pawtucket with approximately 17,000 customers.

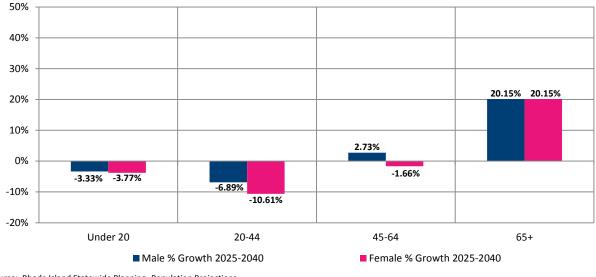


The Rhode Island Office of Statewide Planning projects the state population by city and town. The graph below displays the projected population growth for NBC's service area for the years 2025 to 2040. The most significant percentage increase in population over the fifteen years is projected to be in the towns of Cumberland and Lincoln, in which the populations are projected to grow by 6.3% and 5.6% respectively. The population in East Providence is projected to decline by 7.6% over this same period.



Projected Population Growth by City/Town 2025-2040

The graph below illustrates the projected population growth from 2025-2040 in Rhode Island by age group and gender. The population is projected to decrease in the 45-64 age groups for females and in both the male and female populations for both the Under 20 and 20-44 age groups. The steepest decline will be among the female population in the 20-44 age groups at 10.61%. The population is projected to increase in the 45-64 age groups for males, and for both males and females in the 65+ age groups. The most significant increase will be for both males and females within the 65+ age group at 20.15%.



Rhode Island Projected Population Percent Growth by Age Group and Gender 2025-2040

*Source: Rhode Island Statewide Planning- Population Projections

^{*}Source: Rhode Island Statewide Planning- Population Projections

The Strategic Plan and the FY 2018 Budget

Narragansett Bay is Rhode Island's greatest resource, and the actions of NBC have a significant impact on its water quality. Water quality, in turn, has effects on aquatic life, recreational activities, tourism, waterfront development, and the livelihoods of many who make a living on or near Narragansett Bay. To ensure NBC's ability to meet its water quality objectives within the constraints of a regulated environment, NBC continuously strives to achieve the plan's objectives and goals.

This year's operating budget was developed using the framework of the assumptions and guidelines discussed on the following pages. The service level objectives and performance levels were developed based upon NBC's Strategic Plan prior to the development of budget figures. Once NBC's priorities were identified on a programmatic basis, program managers identified the resources required to meet these service levels. All programs submitted their budgets and identified variances between the proposed funding levels and the prior year budget. With guidance from the Executive Director, Finance staff assessed short and long-term requirements for each program. The budget was allocated based on these needs and the total resources available. This planning process has resulted in an operating budget document with an integrated Performance Data section for each program and a greater focus on resource allocation for both operating programs and CIP projects based on NBC's strategic goals.

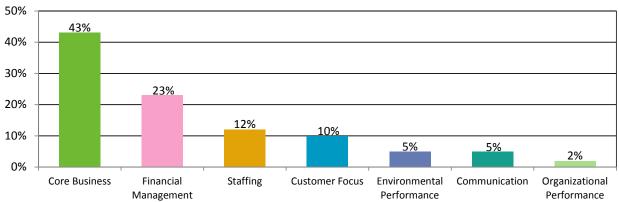
History of the Strategic Plan

NBC's first Strategic Plan was developed in 2004 with input from the outside stakeholders such as NBC's Commissioners, Citizen Advisory Committee members, regulatory agencies, and other interest groups, as well as NBC staff. The Strategic Plan is a dynamic document and its content was expanded in 2005, 2006, 2011, and again in 2016. NBC strives to achieve the plan's objectives and goals to demonstrate its environmental commitment and ensure compliance with current and future regulatory requirements. The goals of the Strategic Plan are listed below.

CORE BUSINESS:	Operate, maintain and protect our collection and treatment systems to ensure that all State and Federal requirements are met or surpassed.
ENVIRONMENTAL PERFORMANCE:	Continuously evaluate NBC environmental performance to identify, quantify and minimize NBC impacts to the environment in a cost effective manner.
FINANCIAL MANAGEMENT:	Manage NBC's finances through strong financial planning and controls such that sewer users charges are minimized.
CUSTOMER FOCUS:	Maintain a customer-focused attitude throughout the organization.
Staffing:	Attract, develop and retain highly qualified employees.
COMMUNICATION:	Improve and enhance internal and external communication to increase understanding of "who we are" and "what we do".
ORGANIZATIONAL PERFORMANCE:	Ensure that the NBC organization is aligned with and supports our strategic goals.

NBC'S Strategic Goals

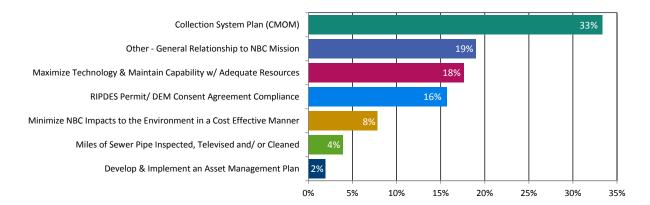
Finance and program managers worked to identify and incorporate Strategic Plan driven actions for achievement, service level objectives, and key target measures into their budgets. The Actions for Achievement or Service Level Objectives are linked to Target Measures and indicate a clear pathway between the long-term and short-term objectives. Program Managers determined that approximately 66% of the Actions for Achievement were aligned to Core Business and Financial Management goals. In addition, 12% of the Actions for Achievement relate to Staffing and 10% to Customer Focus. All of the objectives and measures were reviewed and approved by the Executive Director. The following graph illustrates the percentage of Actions for Achievement aligned with each Strategic Objective.



Percentage of Actions for Achievement by Strategic Objective

The Strategic Plan is also integrated into the Capital Improvement Program. Due to the increasing complexity of the CIP and NBC's funding constraints, NBC evaluated proposed capital investments in light of their strategic value. NBC's Strategic Plan ensures the ability to meet water quality objectives within the constraints of regulatory requirements through short term and long term objectives. As part of the CIP development process, project managers determine the specific strategic goal or goals that the project will address.

Of the 40 CIP projects, 33% are related to NBC's Collection System Plan strategic objective. These include interceptor rehabilitation and construction projects. In addition, 19% of the projects in the CIP are aligned with the General Relationship to NBC Mission strategic objective and 18% of the projects are aligned with the Maximize Technology & Maintain Capability with Adequate Resources strategic objective. The remaining projects are aligned with the RIPDES Permit and RIDEM Consent Agreements strategic objective.



Percentage of Capital for Achievement by Strategic Objective

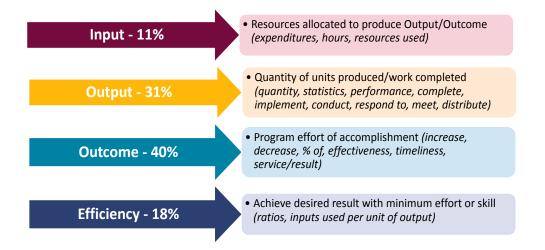
Actions for Achievement or long-term goals are then linked to each Programs target measures or short-term goals by one of four types of performance indicators. The four types of performance indicators are input, output, efficiency, and outcome. A unit of measure is then depicted by the Program Manager in order to track the budgeted goal and actual performance for each of the target measures within their section.



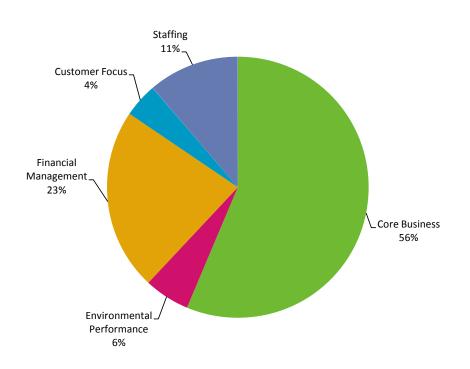
The FY 2018 budget further aligns the performance measures to the GFOA S.M.A.R.T goal framework. This goal setting framework "ensures the best chance of success for achieving goals" and transitions performance measures to represent indicators of outcome and efficiency. This planning process further ensures the allocation of budgeted resources in line with each Programs short-term service level objections or target measures and the long-term strategic goals for goal actions for achievement. Finance staff worked with each of the Program Managers to ensure performance data aligned with the indicators in accordance with this framework as shown below.

S PECIFIC	A specific goal is more likely to be reached because people know precisely what the objective is
MEASURABLE	Establish standards of evidence for gauging progress toward the goal and whether intended benefits are being realized
A TTAINABLE	Goals should have a certain amount of "stretch" in them – achieving the goal should require going beyond current patterns of performance and ways of thinking
R ESULT-ORIENTED	The goal should be focused on results that make a real difference to financial position
TIME-LIMITED	The goal should have a clear timeframe for achievement

Each quarter of the matrix represents the percentage of the target measures, short term goals, by indicator for the entire NBC Organization. Of the 256 target measures, the majority or 40% are Outcome or result related whereas 31% of the measures are Output or quantifiable measures. The remaining 29% correlate to resources used or productivity and are either Efficiency or Input related. Both the Actions for Achievement and the Target Measures are further outlined in the Division Summaries section of this document. Each of the Division summaries further provides a chart outlining their performance data by performance indicator.



This year each section included their top priorities for FY 2018 and indicated the corresponding key code from the Strategic Plan. Additional information regarding these priorities is included in the Division Summaries section of this document. Of the 71 priorities for FY 2018 for the NBC, 40 or 56% are categorized under Core Business followed by Financial Management at 23% or 16 priorites. The following graph shows the percentage of NBC's section's priorites by goal action for achievement.



Fiscal Year 2018 Priorities

Goal Actions for Target Measures by Key Code

Core Business

- **CB1** Ensure compliance with all State and Federal regulations, permits, consent agreements, certifications, NBC regulations and reporting requirements
- **CB 2** Manage the planning, design and construction of NBC's capital improvements in the most costeffective manner and in compliance with regulatory requirements
- **CB 3** Ensure the highest level of availability of systems' applications and network stability
- **CB 4** Maximize efficiency through service automation, applications security and NBC campus security
- **CB 5** Maintain NBC's asset management program for infrastructure and assets, ensure integrity and maximize the investment

Environmental Performance

- **EP 1** Minimize environmental impacts and implement conservation and sustainability measures
- **EP 2** Evaluate the NBC Program and report the data to the public
- **EP 3** Provide technical assistance to evaluate energy conservation and renewable energy opportunities
- **EP 4** Provide quality and expedient sample collection, data analyses and water quality monitoring to evaluate NBC's impacts and document improvements

Financial Management

- **FM 1** Ensure sufficient funding and receive the lowest cost of borrowing with the least rate payer impact
- **FM 2** Integrate NBC's strategic goals into the allocation of NBC's resources
- **FM 3** Maximize the efficiency, effectiveness, and accuracy of NBC's rate structures and collection processes to reduce accounts receivable
- **FM 4** Develop and manage NBC's operating and capital budgets to maximize benefits, minimize expense and unplanned expenditures
- **FM 5** Comply with IRS, Federal and State Rules and Regulations, Trust Indenture and Generally Accepted Accounting Principles
- **FM 6** Ensure goods and services are procured, reviewed and processed in a timely, efficient and cost effective manner
- FM 7 Initiate and evaluate grant funding
- FM 8 Evaluate savings opportunities and optimize NBC operations and processes

Customer Focus

- **CF 1** Maintain programs and conduct projects that give back to the community
- **CF 2** Provide prompt, courteous, efficient and educational services
- **CF 3** Enhance communications to ensure consistency, reliability and satisfaction
- **CF 4** Maximize customer focus attitude by providing excellent customer service and developing strong customer relationships
- **CF 5** Ensure compliance with NBC internal controls

Staffing

- **S1** Ensure compliance with Federal and State labor laws
- **S 2** Foster a positive working environment through effective communication
- **S 3** Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes
- **S 4** Provide a healthy and safe working environment
- **S 5** Develop mechanisms and establish opportunities for continued growth and professional development

Communication

- **C1** Continue to expand and conduct NBC public outreach programs
- **C 2** Proactively manage NBC's public and legislative affairs and communicate NBC initiatives and ongoing activities
- **C3** Effectively communicate status of capital projects to NBC staff and Board members
- **C4** Enhance operating budget, CIP and compliance reports as a communication device
- **C 5** Strengthen and expand NBC's positive relations with key stakeholders (customers, Board, elected officials/delegates, regulatory officials and the public) to ensure support of NBC's mission

Organizational Performance

- **OP 1** Conduct NBC business in an open manner
- **OP 2** Promote diversity in hiring practices
- **OP3** Ensure compliance with State ethics, regulatory agenda filing and disclosure of consultants requirements
- **OP 4** Provide end-user technology and systems to meet NBC's strategic goals

Budget Philosophy, Process and Policies

Philosophy

NBC is committed to protecting Narragansett Bay and its surrounding rivers and to providing a high level of service at a reasonable cost. To this end, NBC strives to identify all potential impacts to revenue and expense for the upcoming fiscal year when developing the annual Operating Budget.

Fiscal Year

NBC's fiscal year runs from July 1st through the following June, and is numbered with the calendar year in which it ends. The FY 2018 budget year begins July 1, 2017 and ends June 30, 2018. The prior fiscal year or FY 2017 is the 12 month period that ends June 30, 2017.

Basis of Accounting

The accounting policies of NBC conform to Generally Accepted Accounting Principles as applicable to governmental proprietary fund types (enterprise funds). For enterprise funds, the intent of the governing body is that the expense of providing goods and services to the general public on a continuing basis be financed or recovered through user charges. The financial statements of NBC are prepared using the accrual basis of accounting; however, the budget is adopted on a modified accrual basis of accounting consistent with Generally Accepted Accounting Principles. The major difference is how debt service and capital expenditures are reflected.

Basis of Budgeting

The NBC prepares its operating budget on a modified accrual basis. Accordingly, revenue must be both measurable and available for the current period. With respect to expense, there are a few differences between how certain items are treated in the financial statements and the budget. Although capital expenditures are depreciated in the financial statements, they are expensed in the budget. In addition, in the financial statements principal payments are shown as a reduction of a liability but they are budgeted as expense. Lastly, depreciation and bad debt expense are included in the financial statements but they are not budgeted or expensed. See the table below for a summary of the differences.

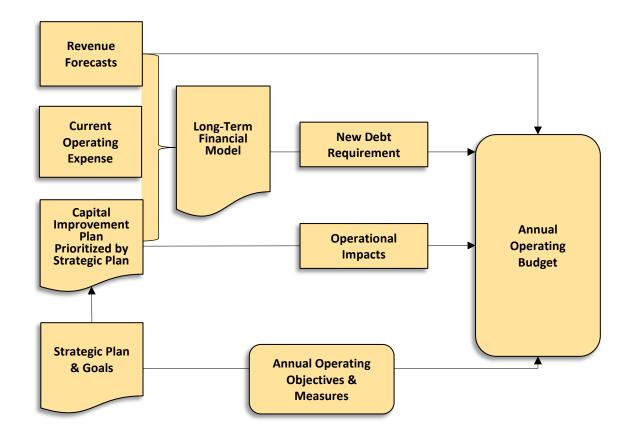
	Basis of Accounting Full Accrual	Basis of Budget Modified Accrual
Revenue Recognition	When earned	When measurable and available
Expense Recognition	When liability incurred	When liability incurred
Capital Expenditures Depreciation Principal Payments Bad Debt	Increase Asset Expensed Reduction of liability Expensed	Budgeted as expense Not Budgeted as expense Budgeted as expense Not budgeted as expense

The Budget Process

As a regulated agency, it is important that NBC analyze financial and operational needs throughout the year. The formal review for the operating budget, however, begins in July and August of each year. As part of this process, regulatory requirements are reviewed, as well as major program changes and capital needs. Large capital projects, requiring major changes to facilities and infrastructure, are identified in the Capital Improvement Program (CIP), which is developed in conjunction with the annual operating budget. Both the CIP and the annual operating budget are developed within the context of the Strategic Plan's long-term goals. The CIP identifies projects on a five-year basis. This plan, as well as known operating expense parameters and revenue projections, are integrated into the long-term financial planning model in order to assess new debt requirements. The model identifies available funding sources and funding needs (see CIP Impact and Long-Term Plan for more details) for the next decade. The model details the existing and new debt service requirements which are included in the annual operating budget. Operational impacts of the CIP are also included in the operating budget.

Revenue for the upcoming fiscal year is determined by the projected user rates and factors affecting nonoperating revenue, such as grants, collection rates and the expected rate of return on cash balances. If it is determined that user fee revenue will not be sufficient to meet NBC's future financial obligations, the NBC applies for rate relief with the Rhode Island Public Utilities Commission (PUC). A rate filing application for the recovery of expense line items, other than debt service is subject to a nine month review and approval process before new rates can be implemented.

The flow chart below illustrates the relationship between long-range planning and the budget process.



Relationship between the Budget Process and Long-Range Planning

In July and August, Finance staff begins the process of forecasting the upcoming fiscal year revenue, expense and financial obligations. NBC's rate increases for operating expense and rate base adjustments are subject to a 9-month review process by the PUC. Therefore, if it is determined that user charges must be adjusted, staff seeks Board approval to file with the PUC for rate relief. If feasible, staff will prepare and submit an application with the PUC by September 30th to ensure that new rates are in effect by the following July 1st (see The Rate Setting Process for more information).

In November, the Administration and Finance Division presents short and long-term budget directives to all Division Directors and Program Managers. The managers are given online operating budget files which include the following:

- Budget Calendar
- Program Overview worksheet, which includes the prior fiscal year Major Accomplishments, current year budgeted priorities by key code and Program Objectives
- Performance Measure worksheet with SMART goal standards and outcome and efficiency indicator examples
- Personnel worksheet with salary and benefit rates and guidelines
- Proposed Budget worksheet with budget account detail forms
- Program and Operational change detail forms
- Operating Capital Plan for the FY 2018 budget and four out-years (5 year plan)
- Maintenance Contracts, Service Agreements and Large Operating Account detail forms
- Awards and Recognitions forms

In mid-November, Program Managers are asked to develop their Program objectives and provide performance data for their section. The Program Managers provide their prior year major accomplishments and submit the program's top priorities for the upcoming year. Both accomplishments and priorities are identified by a Goal Action for Achievement in connection with each of the seven Strategic Goals. The Goal Actions for Achievement are identified by a key code which is located in the About NBC section of this document. Development of the five-year Operating Capital Plan begins in December.

Beginning in January, Program Managers prepare their proposed budgets and the Finance section provides support throughout this timeframe. The Finance section conducts mid-year reviews of the current year budget to identify potential issues and trends that should be considered by Program Managers as part of the development of their proposed budgets. After a preliminary review of the draft operating budgets with Administration and Finance staff, the Division Directors and Program Managers present their proposed budgets to the Administration and Finance Director and the Executive Director in February.

Development of the CIP also takes place during February and March. Project Managers prepare capital budgets by project to identify both new and completed projects as well as update the costs and schedules of ongoing capital projects. As part of this process, Project Managers submit monthly cash flow and operating expense impact projections. Finance staff analyzes the information and subsequent to review by the Executive Director and Project Managers, the CIP document is drafted.

In March and April, the Finance section assesses year-to-date budget performance and analyzes funding requests. The draft Operating Budget undergoes a line-by-line examination by Finance staff and feedback obtained through the rate case process is used to update revenue and expense projections.

In May, the long-term financial model is updated based upon the CIP inputs and an analysis of available capital funds. The outputs from the long-term financial model are used to identify the CIP funding sources and uses. These outputs, along with the CIP operating expense impacts are then incorporated into NBC's rate model to develop five-year rate projections.

Revenue projections are finalized in May and Finance staff prepares recommended budget adjustments for the Executive Director's review. Once approved by the Executive Director, the draft Operating Budget is submitted to NBC's Board of Commissioner's Finance Committee for review in late May.

Additional fine-tuning of the Operating Budget takes place in early June. Drafting of the formal budget document is also completed and it is printed in early June. The CIP is reviewed and approved by the Long Range Planning (LRP) Committee in June. The Operating Budget is reviewed and approved by the Finance Committee in June as well. The CIP and the Operating Budget, along with the Authorizing Resolutions, are presented to the Board of Commissioners for review and approval at the June Board meeting.

Budget Monitoring and Amendment Procedures

General

- A line item budget is maintained for each individual cost center. Budget transfers are required to prevent any significant expense overrun on any line item.
- Finance staff reviews the budget versus actual status by cost center monthly and ensures that budget transfers are prepared and processed.
- At each monthly Board of Commissioner's meeting, the monthly financial statements including budget to actual status are submitted and presented to the Finance Committee.
- Expense accruals are made at the close of every accounting period in order to reflect the most accurate portrait of the current financial status.

Budget Amendments

- NBC exercises strong financial controls to ensure total expense does not exceed the amount approved in the current year's operating budget.
- The Program Manager and Division Director authorize budget transfers within a section. Finance staff then review and authorize the proposed budget transfers. By Resolution, the Director of Administration and Finance must then approve all budgetary line item adjustments within and between categories. The Executive Director must notify the Finance Committee of such adjustments on a monthly basis.
- No budget transfers shall be made from capital to operating expense under normal circumstances.
- All budget transfers are reported to the Finance Committee monthly.
- Changes to Budgeted Operating Capital in excess of \$50,000 must be approved by the Finance Committee.
- All budget transfers are reviewed by Finance and tracked on NBC's computerized financial system.

FY 2018 Budget Calendar

	July 2016 - August 2016
	 Projection of FY 2018 revenue, expense, and financial obligations Comparison of needs to PUC approved cost of service
	November 2016
	 Budget Kick-off - short and long term budget directives Overview, Responsiblities & Draft Performance Data submitted by November 30th
	December 2016
	Performance Data review, transition to GFOA Indicator Standards and SMART Goals
- 1	January 2017
	•Final Performance Data due January 6 th
-	February 2017
	• FY 2017 Mid-Year Budget Reviews conducted February 1 st , 2 nd & 6 th
	 Preliminary Budget submittals to Finance for review by February 8th
	 Preparation of utilities, biosolids and chemical usage, cost projections and analysis
	 Completion of salary and fringe calculations
	•Capital Improvement Plan - Project Overview, Cash Flows and Schedule Detail forms submitted by February 8 th
_	March 2017
	Budget Presentations to Executive Director on March 7 th
	Addition of enhancements to budget document
	•FY 2018 Budget Change Requests submitted on March 23 rd
	April 2017
	•Comparison to prior year expenditures and PUC cost of service
	•Analysis of FY 2017 year to date expense and revenue
	Preparation of CIP and revenue projections
	 Review draft CIP by the CIP Review Committee on April 18th
	 Presentation of preliminary budget adjustments and status to Executive Director
-	May 2017
	•Balance Budget
	 Preparation of Budget documents
	 Update of Long-term Debt Model, CIP sources and uses
	 Projection of carry-foward, FY 2017 Finish, Fund balances
	Health insurance renewal
	•Finance Committee review of Draft Budget on May 23 rd
	June 2017
	•Final Budget revisions and Budget document preparation
	Long-Term Planning Committee and Board Review and Approval of FY 2019-2023 CIP on lune 20th

 $\bullet\mbox{Finance}$ Committee and Board review and adoption of Fiscal Year 2018 Operating Budget on June 20^{th}

The Rate Setting Process

NBC uses two types of applications for rate relief including 1) a general rate relief application, and 2) a debt service compliance filing for rate relief related to debt service and debt service coverage. With respect to general rate cases, by law the filing is subject to a nine-month review process, resulting in a nine-month period passing prior to new rates being effective. Debt service compliance filings have a shorter review period with PUC decisions rendered typically in less than 90 days.

All filings for rate relief are authorized by NBC's Board of Commissioners. Staff prepares and files the rate application with the PUC and serves copies to the Rhode Island Division of Public Utilities and Carriers (DPUC) and the Rhode Island Attorney General's (AG) Office. The DPUC represents the interests of consumers in rate case proceedings and the AG acts as legal counsel to the DPUC. Once an application is filed and determined by the Clerk to substantially conform in all material aspects to the filing requirements, it is assigned a docket number.

Typically the PUC's legal counsel holds a pre-hearing conference within 60 days of the filing to establish the procedural schedule. NBC provides notice to its customers of the rate application with a billing insert. The rate application and all other documents are posted on the PUC's website and are made available for public review at the PUC's office. NBC is represented by legal counsel throughout this process.

General Rate Relief

In addition to specific filing requirements, a rate application will include pre-filed direct testimony and schedules from NBC witnesses, including outside experts that support the application. NBC must respond to data requests from both the PUC and the DPUC during the review process and the DPUC submits pre-filed testimony and schedules to support their position. The PUC holds public hearings in NBC's service area for ratepayer comment. The NBC may submit pre-filed rebuttal testimony and the DPUC may subsequently file surrebuttal pre-filed testimony. If the NBC and the DPUC agree on most of the issues, the parties may negotiate a settlement agreement which is subject to PUC approval. The PUC conducts hearings to enter the documents into evidence and examine the expert witnesses. The PUC must render a decision within nine months of the filing date and this may be a bench decision or through a majority vote at an open meeting. NBC must then make a compliance filing that sets forth the final tariffs. A written Report and Order is typically issued subsequent to the effective date of the new rates.

Rate Relief for Debt Service and Debt Service Coverage

The PUC first approved the "Debt Service Compliance Filing Mechanism" for rate relief related to debt service and debt service coverage in 2003. This approach includes five-years of projected rate increases required to support NBC's CIP and has been reauthorized by the PUC twice, most recently for FY 2013 through FY 2017. NBC must request rate relief no later than 60 days prior to the proposed effective date and the request is limited to debt service and debt service coverage. Because the scope is limited, the review process is more expeditious and rate relief is generally granted within 90 days. The public notice requirements also apply to these filings and the PUC conducts a hearing prior to issuing their decision.

Rate History					
Effective Date	1/1/2013	7/1/2013	9/19/2014	7/1/2015	7/1/2016
Type of Filing	Compliance	General	General	Compliance	Compliance
Purpose	Debt	O&M/Rate Base	O&M/Rate Base	Debt	Debt
Revenue Increase	7.09%	9.32%	3.83%	2.29%	1.48%
User Rate Increase	7.35%	9.67%	3.97%	2.40%	1.53%
Average Annual Residential Fee (150 gpd)	\$403	\$442	\$459	\$470	\$477

Financial Policies

NBC's financial policies guide the financial management and planning process of NBC. These policies encourage NBC to take a long-term, agency-wide approach to financial planning and incorporate various regulatory and legislative requirements.

Long-Range Planning

- NBC will update and modify the Strategic Plan as needed, to accurately reflect priorities and goals.
- NBC shall update and maintain the long-term financial model, in order to assess the impacts of current and future operating and capital requirements. The model will be used to develop and support financing strategies that will provide stability, continuity and minimize ratepayer impact (for more detail, see the Debt Policy).

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Review and update of Strategic Plan	Annually	Annually
Update Long-Term Financial Plan	Semi-Annually	Semi-Annually

Revenue Policies

- NBC will develop and seek PUC approval of rates that will result in net revenue (gross revenue less
 operating expense) at least equal to 125% of the annual debt service to meet the rate covenants as set
 forth in the Trust Indenture.
- NBC will continually review capital and operating needs to determine if a rate adjustment is required.
- Restricted receipts for debt service and debt service coverage shall be administered in accordance with the Report & Orders from the PUC and the Trust Indenture.

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
File with PUC to maintain sufficient operating and capital funding	No filing	No filing
Revise Capital cash flow projected draw	2 Updates	2 Updates
Update Long-Term Financial Plan	Semi-Annually	Semi-Annually
Prepare monthly financial statements within five business days of month-end	Monthly	Monthly
Prepare the restricted account reporting monthly	100%	100%
Complete trust transfers on the fourth business day before month-end	100%	100%
Perform monthly fund reconciliation	100%	100%
Prepare and transmit capital compliance reports to the PUC	2	2
Transmit restricted account reports to the PUC	4	4

Expense Policies

- All purchases shall be in accordance with NBC's Purchasing Rules and Regulations and applicable State and Federal legislation.
- The Executive Director shall provide a report to the Finance Committee of all purchase requisitions greater than \$10,000 for items included in the budget. The Executive Director will present all purchase requisitions greater than \$50,000 not included in the budget for approval by the Finance Committee.

The Finance Committee will review and approve the creation of new positions and the upgrading of
existing positions not included in this budget. The Executive Director may post for vacancies of existing
positions or newly created positions included in this budget.

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Purchase requisitions completed within two weeks	100%	100%
Complete 85% of bid specifications within 30 days	85%	85%
Review all contracts three months prior to expiration	100%	100%
Ensure contracts are awarded within 60 days of RFQP	Within 60 days	Within 60 days
Provide Finance Committee with list of requisitions greater than \$10,000	100%	100%
Ensure NBC's fleet does not include more than 50 vehicles that weigh less than 8,500 tons	≤50	≤50

Auditing, Accounting and Financial Statements

- NBC will prepare financial reports in accordance with Generally Accepted Accounting Principles (GAAP) as outlined by the Governmental Accounting Standards Board (GASB).
- An independent audit of NBC's financial statements is performed annually.

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Receive the GFOA Certificate of Achievement for Excellence in Financial Reporting	15 Years	16 Years
Complete audit by September 30 th	9/30/2017	9/30/2018
Complete audit with clean opinion and no management letter	Yes	Yes
Complete single audit by March 31 st	3/31/2018	3/31/2019
Prepare monthly financial statements within five business days of month-end	Monthly	Monthly
Prepare the restricted account reporting within 25 days of month-end	≤25 days	≤25 days
Perform monthly fund reconciliation within 25 day after month-end	≤25 days	≤25 days
Implement GASB pronouncements that apply to NBC	100%	100%

Budget Policy

- NBC shall prepare a balanced operating budget in which total expense is equal to total revenue.
- The Finance Committee will review and approve the monthly financial statements, including the status of the budget versus expense, prior to the monthly Board Meeting.
- NBC will monitor the operating budget to ensure that sufficient resources are available to safely and effectively provide wastewater treatment.

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Prepare and transmit monthly financial report to NBC's Finance Committee	Monthly	Monthly
Upload and maintain Operating Budget and CIP internet features	100%	100%
Develop and administer a high quality annual Operating Budget and CIP	Yes	Yes
Receive GFOA Distinguished Budget Presentation Award	15 Years	16 Years
Process 100% of budget transfers 5 days prior to month end	100%	100%
Operating Budget receives a proficient or better rating as a communication device	Yes	Yes
Complete Annual Sewer User Fee Survey	Yes	Yes

Capital Budget Policy

- NBC will adopt and maintain a five-year Capital Improvement Program and update it on an annual basis.
- The projects in the Capital Improvement Program will be prioritized based upon their strategic importance.

• NBC will adopt and maintain a five-year operating capital plan and update it on an annual basis.

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Revise capital cash flow projected draw	2 Updates	2 Updates
Develop and administer a high quality annual Operating Budget and CIP	Yes	Yes

Debt Policy

- NBC has a significant CIP and recognizes the importance of proper financial and debt management to
 ensure the successful implementation of its CIP, obtain the highest possible credit ratings and ensure
 that ratepayer impact is minimized. NBC may issue debt to finance capital improvements as well as to
 meet short-term operating and capital cash flow needs.
- NBC will maintain a Long-Term Financing Model that takes into consideration the CIP, cash flows, NBC's annual operating revenue and expense, debt service coverage, State Revolving Fund (SRF) capacity and other relevant items. The long-term financial plan shall be used as the basis for determining debt issuance needs.
- There are a wide variety of financial products available. The Director of Administration and Finance, in conjunction with NBC's Financial Advisor, will evaluate the options and implement recommendations that will minimize risk and maximize benefits. NBC's lowest cost of permanent financing is through subsidized SRF loans from the Rhode Island Infrastructure Bank. NBC will use SRF funds to the extent they are available and may issue short or long-term debt in fixed or variable mode to finance its capital program. Variable rate debt may be issued in various modes and NBC may use financial products that will result in either a synthetic variable or a synthetic fixed rate. Short-term debt may also be issued to meet operating cash flow needs.
- NBC may employ one or more financial products to manage interest rate risk and maximize market benefit upon the recommendation of the Director of Administration and Finance and NBC's Financial Advisor.
- In accordance with Rhode Island General Law (RIGL) 39-3-15, the Division of Public Utilities and Carriers must approve NBC's issuance of long-term debt.
- The Director of Administration and Finance will determine the issuance method (competitively bid or negotiated) in conjunction with NBC's Financial Advisor. The method may be modified from time to time as NBC's needs change or new or modified financial market methods emerge. The issuance method will be modified if a lower effective market interest rate is expected to result.
- Appropriate Ratio Levels:
 - Debt service coverage ratio minimum of 1.25 (calculated as Gross Revenue less Operating Expense (excluding depreciation) divided by annual principal and interest.)
 - Principal maturities for fixed and variable rate debt are not to exceed thirty years.
 - Outstanding long-term maturity variable rate bonds are not to exceed a sum equal to 25% of total long-term fixed rate debt except for the inaugural issue.

NBC does not have a statutory limit on debt issuance.

Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Credit Rating with Standard & Poor's	AA-	AA-
Update Long-Term Financial Plan Semi-Annually	Semi-Annually	Semi-Annually
Ensure compliance with federal tax laws and regulations to maintain tax exempt status of NBC's bond issues	100%	100%
Tax Exempt Spend Down Requirement	Monthly	Monthly
Determine Arbitrage Liability by August 31 st	8/31/2016	8/31/2017
Provide Arbitrage Calculation Information	100%	100%
File with PUC to maintain sufficient operating and capital funding	10/1/2016	10/1/2017
Compliance with Continuing Disclosure Commitments	3/31/2018	3/31/2019

Investment Policy (in part)

- The "prudent investor" standard shall be applied in the context of managing an overall portfolio.
- Investment of financial assets shall be diversified to minimize the risk of loss that may occur due to concentration in a specific maturity, a specific issuer or a specific class of securities.
- All financial assets shall be invested in a manner that will preserve the value and safety of capital.
- NBC shall invest funds in order to maximize earnings and minimize risk during the period of availability of the funds.
- NBC shall comply will all Federal, State and other legal requirements.

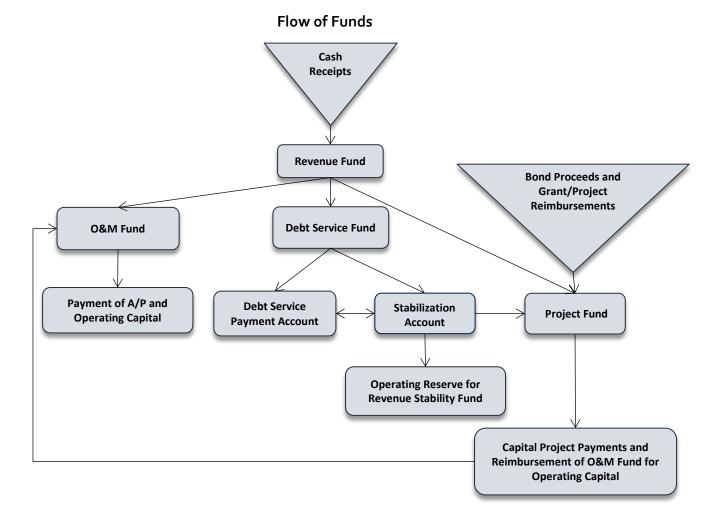
Measure of Compliance	FY 2017 Goal	FY 2018 Goal
Ensure compliance with federal tax laws and regulations to maintain tax	100%	100%
exempt status of NBC's bond issues		

Trust Indenture and Funds

In accordance with GASB criteria, NBC is considered an Enterprise Fund for accounting purposes. In addition, NBC has several funds established pursuant to a Trust Indenture and First Supplemental Indenture executed on April 15, 2004 by and between NBC and the Trustee. NBC has also executed 24 Supplemental Indentures (see table below), and collectively these are referred to as the "Trust Indenture."

Indenture Number	Date	Indenture Number	Date
2	December 30, 2004	14	March 29, 2011
3	August 4, 2005	15	June 28, 2012
4	December 15, 2005	16	November 28, 2012
5	December 21, 2006	17	March 21, 2013
6	February 8, 2007	18	June 6, 2013
7	October 15, 2007	19	December 12, 2013
8	December 12, 2007	20	March 6, 2014
9	July 1, 2008	21	October 28, 2014
10	November 1, 2008	22	May 5, 2015
11	October 6, 2009	23	July 30, 2015
12	February 12, 2010	24	June 2, 2016
13	June 24, 2010		

The schematic below provides a general overview of the flow of cash as directed by the Trust Indenture. The schematic is not meant to be a complete representation of the Trust Indenture.



Due to the complexity of the documents, it is difficult to present a detailed description of all of the funds and their interrelationships. The following serves as a brief summary of the twelve funds established pursuant to the documents.

Revenue Fund

•The Revenue Fund is the intial depository for all NBC user fee receipts and other miscellaneous receipts. These funds are transferred to the other funds as required once a month.

Operation and Maintenance Fund

•The Operation and Maintenance (O&M) Fund is used to pay for current operations, administrative, maintenance, ordinary current repairs of NBC's facilities and infrastucture expense, and operating capital.

Debt Service Fund

•The Debt Service Fund is designated for the payment of debt service and also includes the Stabilization Account where debt service coverage funds are held.

Project Fund

•Funds from the Project Fund are designated to pay for improvements and additions to NBC's capital assets. This includes expenditures related to the Capital Improvement Plan. Funds are transferred from the Project Fund to reimburse the O&M Fund for operating capital.

Operating Reserve for Revenue Stability Fund

•The Operating Reserve for Revenue Stability Fund may be used when there are insufficient funds in the Revenue Fund to make the monthly transfers to other accounts.

Renewal and Replacement Fund

•The Renewal and Replacement Fund is used for the replacement or renewal of capital assets of the wastewater treatment system and related infrastructure when the expense is not covered by the Project Fund. This fund is not funded.

Debt Service Reserve Fund

•The Debt Service Reserve Fund is used when there are insufficient funds in the Debt Service Fund to cover debt service or a reserve is required as part of a debt issuance. NBC funded a \$3.5M Reserve for the 2013 Series C Wastewater System Revenue Bond issue.

Operation and Maintenance Reserve Fund

•The O&M Reserve Fund is designated to pay current operating expense for NBC whenever monies on deposit in the O&M Fund are deemed insufficient. This Fund is not funded.

Redemption Fund

•The Redemption Fund is used for redemption fees, and/or principal and interest on the redemption of bonds. This Fund is not funded.

Insurance Reserve Fund

•The Insurance Reserve Fund is used should NBC determine that it cannot reasonably obtain required insurance. This Fund is not funded.

Unrestricted Fund

•The Unrestricted Fund is the depository for any cash surplus once all funds and accounts established under the Trust Indenture are funded. These funds may be used for any deficiency in amounts required by other funds. This Fund is not funded.

Rebate Fund

•The Rebate Fund is used should NBC's series of bonds or subordinated bonds issued, become subject to the rebate requirement of Section 148(f) of the Internal Revenue Code.

The Environmental Enforcement Fund is within the Revenue Fund and consists of monies recovered through administrative or civil enforcement action and cannot be used for normal operating expense in accordance with chapter 46-25 of the Rhode Island General Laws. This Fund is insignificant and is not included in the annual operating budget.

Monthly Trust Transfers

The Trust Indenture establishes the flow of funds and all revenue, with minor exceptions, which must be deposited into the Revenue Fund. On the third day prior to the last business day of each calendar month, the NBC must apply amounts from the Revenue Fund for certain purposes in a specific order. The first such amount applied is the transfer from the Revenue Fund and deposit into the Operation and Maintenance Account in the Operation and Maintenance Fund. The NBC has calculated the FY 2018 monthly transfers for operating expense in accordance with Section 504(2) (i) of the Trust Indenture. The transfer amounts are based on the actual operating expense in FY 2017 multiplied by the percentage increase in the FY 2018 operating budget, or 6.6%. The FY 2018 monthly Operation and Maintenance Fund transfers are shown in the table below.

ed Tr	ust Transfer
	Amount
\$	4,199,440
	4,913,234
	2,634,038
	2,977,887
	3,651,513
	3,987,838
	3,076,207
	3,678,858
	3,195,476
	2,597,077
	2,844,921
	4,052,104
\$	41,808,594
	\$

Net Position

The data in this budget has been used to project net position for June 30, 2018, as shown in the table below.

Fund	N	et Position FY 2016	Net Change	Projected let Position FY 2017	Net Change	Projected et Position FY 2018
Revenue Fund	\$	26,473,423	\$ (1,221,441)	\$ 25,251,982	\$ (1,291,547)	\$ 23,960,435
Operation and Maintenance Fund		(19,905,209)	2,331,406	(17,573,803)	-	(17,573,803)
Debt Service Fund		38,954,893	(1,071,847)	37,883,046	(1,071,847)	36,811,199
Project Fund		399,166,991	28,560,958	427,727,949	25,506,456	453,234,405
Operating Reserve for Revenue Stability Fund		4,501,062	(1,062)	4,500,000	-	4,500,000
Renewal and Replacement Fund		-	-	-	-	-
Debt Service Reserve Fund		3,502,206	(5,206)	3,497,000	-	3,497,000
Operation and Maintenance Reserve Fund		-	-	-	-	-
Redemption Fund		-	-	-	-	-
Insurance Reserve Fund		-	-	-	-	-
Unrestricted Fund		-	-	-	-	-
Rebate Fund		-	-	-	-	-
Environmental Enforcement Fund		90,910	5,090	96,000	(5,000)	91,000
Net Position	\$	452,784,276	\$ 28,597,898	\$ 481,382,174	\$ 23,138,062	\$ 506,714,401

Significant changes in the net position are as follows:

Revenue Fund: The Revenue Fund is the initial depository for all NBC receipts except those deposited into the EEF. The Revenue Fund net position is expected to decrease by \$1.2 million or 4.6% from FY 2016 to FY 2017 and \$1.3 million or 5.1% from FY 2017 to FY 2018. NBC must transfer a fixed percentage of receipts into restricted accounts based upon a Report and Order from the PUC. The percentage is calculated based on the PUC approved levels for revenue and debt service. Because NBC's receipts in FY 2017 and budgeted revenue in FY 2018 are higher than the PUC approved revenue, additional cash is transferred to the Debt Service Fund resulting in a decrease in net position of the Revenue Fund.

Operation & Maintenance (O&M) Fund: The FY 2016 negative net position reflects the net pension liability recorded as a result of the implementation of GASB Statement 68. From FY 2016 to FY 2017 the O&M net position is expected to increase by \$2.3 million due the projected operating budget surplus. Given that NBC has adopted a balanced operating budget for FY 2018, no change is projected between the June 30, 2017 and the June 30, 2018 ending net position.

Debt Service Fund: The Debt Service Fund net position is projected to decrease 2.8% in FY 2017 and in FY 2018 by an additional 2.8%. This decrease is the result of the projected higher cash balance required for the PUC restricted calculation referenced in the Revenue Fund section above which causes a higher amount to be transferred from the Stabilization Account in the Debt Service Fund to the Restricted Account – CIP in the Project Fund.

Project Fund: In FY 2017 the Project Fund net position is projected to increase by 7.2% or \$28.6 million and in FY 2018 it is projected to increase by 6.0% or \$25.5 million. This projection is based on the average increase in capital project assets, transfers in from the Stabilization Account in the Debt Service Fund, minus principal payments for the past two years.

Operating Reserve for Revenue Stability Fund: The PUC maximum cash balance allowed in this fund is \$4.5 million. The net position is returned to this level at fiscal year-end with the transfer of interest earnings to the Revenue Fund.

Renewal and Replacement Fund: This fund has no assets or liabilities and NBC does not plan on using this fund.

Debt Service Reserve Fund: NBC funded a Debt Service Reserve Fund related to the 2013 Series C Wastewater System Revenue Bonds in the amount of \$3.5 million. The net position is returned to this level at fiscal year-end with the transfer of interest earnings to the Revenue Fund.

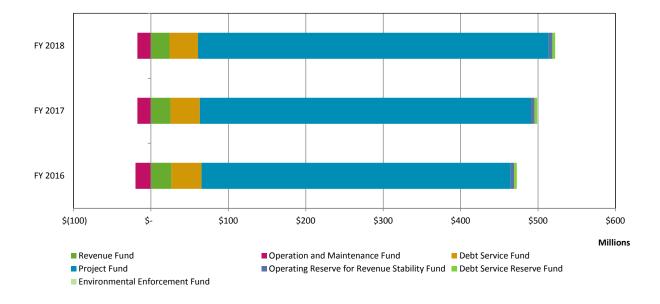
Redemption Fund: This fund has no assets or liabilities and NBC does not plan on using this fund.

Insurance Reserve Fund: This fund has no assets or liabilities and NBC does not plan on using this fund.

Unrestricted Fund: This fund has no assets or liabilities and NBC does not plan on using this fund.

Rebate Fund: This fund has no assets or liabilities and NBC does not plan on using this fund.

Environmental Enforcement Fund: This fund is not impacted by activity in the operating budget. A \$5,090 increase in net position is projected for the year ending June 30, 2017 as the result of a large fine. The net position is projected to decrease by \$5,000 for the year ending June 30, 2018 as no significant receipts are anticipated and the expense is projected to be at the same level as prior years.



The year-end projected net position for FY 2016, FY 2017 and FY 2018 is shown in the chart below.

For an overview showing the relationship between major funds and Divisions / Sections please see the Fund – Organization Matrix in the Supporting Schedules section of this budget.



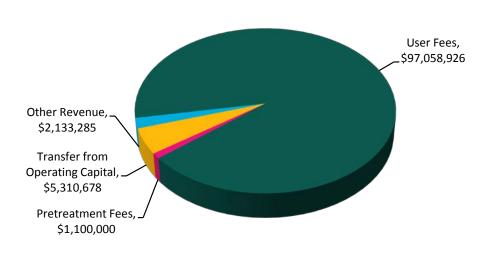
Budget Summary Information

Budget Overview

		FY 2016 Actual	FY 2017 Budget	FY 2018 Budget	Budgeted Difference
Revenue					
Operating Revenue:					
User Fees	\$	96,078,624	\$ 96,899,643	\$ 97,058,926	\$ 159,283
Pretreatment Fees		1,088,763	1,100,000	1,100,000	-
Septage		358,719	325,000	325,000	-
Connection Permit Fees		124,450	125,000	130,000	5,000
Total Operating Revenue		97,650,556	98,449,643	98,613,926	164,283
Non-Operating Revenue:					
Investment Income		112,094	5,000	120,000	115,000
Late Charges		932,178	930,000	900,000	(30,000)
Transfer from Operating Capital		3,652,894	5,479,500	5,310,678	(168,822)
Miscellaneous		626,115	1,261,728	286,400	(975,328)
Renewable Energy Credits*		-	-	371,885	371,885
Total Non-Operating Revenue		5,323,281	7,676,228	6,988,963	(687,265)
Total Revenue	\$	102,973,837	\$ 106,125,871	\$ 105,602,889	\$ (522,982)
Expense					
Operation and Maintenance Expense	e:				
Personnel	\$	22,401,349	\$ 25,225,531	\$ 25,264,376	\$ 38,845
Operating Supplies/Expense		14,177,379	15,140,547	15,308,168	167,621
Professional Services		1,019,108		1 000 050	
Total O & M			1,237,150	1,236,050	(1,100)
		37,597,836	 1,237,150 41,603,228	 1,236,050	 (1,100) 205,366
Debt Service:					
Debt Service: Debt Service					
		37,597,836	41,603,228	41,808,594	205,366
Debt Service		37,597,836	41,603,228	41,808,594	 205,366
Debt Service Programmed New Debt		37,597,836 42,907,662 -	41,603,228 45,137,622 -	41,808,594 46,786,894 -	205,366 1,649,272 -
Debt Service Programmed New Debt <i>Total Debt Service</i>		37,597,836 42,907,662 - 42,907,662	41,603,228 45,137,622 - 45,137,622	 41,808,594 46,786,894 - 46,786,894	205,366 1,649,272 - 1,649,272
Debt Service Programmed New Debt <i>Total Debt Service</i> Debt Service Coverage	\$	37,597,836 42,907,662 - 42,907,662 18,815,445	\$ 41,603,228 45,137,622 - 45,137,622 13,905,521	\$ 41,808,594 46,786,894 - 46,786,894 11,696,723	\$ 205,366 1,649,272 - 1,649,272 (2,208,798)

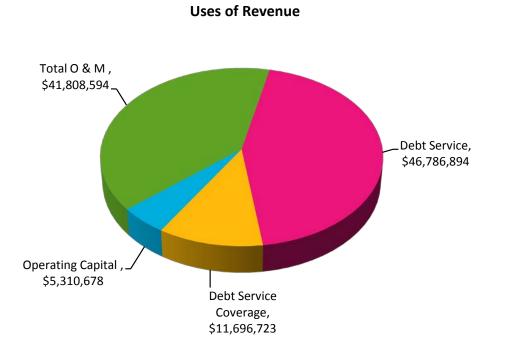
*Included with Miscellaneous Non-Operating Revenue Prior to FY 2018

The Budget Overview table on the previous page shows that budgeted operating revenue is \$164,283 or 0.2% higher than last year's budget. Total projected revenue for FY 2018 is approximately \$105.6 million and user fees are the most significant source of revenue, representing \$97.1 million or 91.9% of total revenue. The chart below illustrates the sources of FY 2018 budgeted revenue.



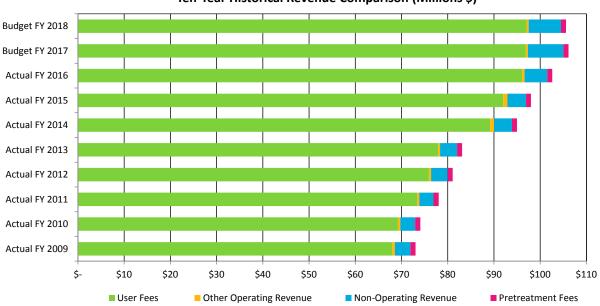
Sources of Revenue

The largest category of expense in FY 2018 is Debt Service, which is approximately \$46.8 million and represents 44.3% of total uses of revenue; however, no programmed new debt is budgeted in FY 2018. Budgeted Operation and Maintenance expense is \$41.8 million or 39.6%. The budget also includes debt service coverage of \$11.7 million and operating capital of \$5.3 million. The debt service coverage ratio is 1.25 which is consistent with the rate covenant of 1.25 set forth in NBC's Trust Indenture. The chart below illustrates FY 2018 budgeted uses of revenue.

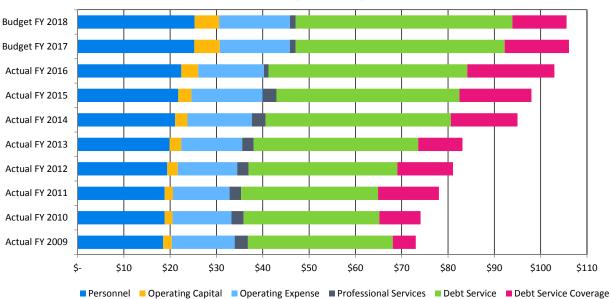


Historical Overview

Revenue has grown significantly over the past ten years, primarily to support the debt service and debt service coverage associated with NBC's capital program. The charts on this page represent a ten year historical overview of NBC's revenue and expense.







Ten-Year Historical Expense Comparison (Million \$)

FY 2018 Budget – Key Assumptions

The development of the FY 2018 budget was governed by the following:

Key long-term guidelines:

- The Strategic Plan guides the development of priorities, as well as program objectives and measures; and also determines the strategic value of the capital projects in the CIP.
- The operating capital policy defines operating capital items as those with cost greater than \$5,000 and a minimum useful life of three years.
- The asset management policy requires the identification of short-term capital needs and the development of a long-term (five-year) asset replacement plan.

* Key short-term guidelines:

- User fee revenue reflects the current rate base with an adjustment for a new commercial user.
- REC revenue rates of \$26 /REC Field's Point Turbines and \$20/REC WED Turbines and Biogas Reuse
- Revenue available for operation and maintenance expense is calculated in accordance with the Trust Indenture as total revenue less debt service, debt service coverage, and operating capital.
- The budget includes contracted step increases for union employees and merit increases for nonunion employees.
- NBC's FY 2018 contribution rate to the Rhode Island State Retirement System on behalf of participating union employees is unchanged from the prior year at 26.34% in FY 2018.
- NBC's contribution rate to the State Retirement Health Benefit for participating union employees is unchanged from the prior year at 5.97% in FY 2018.
- Fringe benefit rates reflect a 12.9% increase in the High Deductible Health Plan (HDHP) along with NBC partial funding of a Health Savings Account (HSA) and/or Health Reimbursement Arrangement (HRA). Dental insurance premiums are unchanged from FY 2018, vision insurance premiums increased by 11.3% and Long-Term Disability insurance premiums increased by 5.0% over the prior year level. (See Budgeted Benefits Comparison schedule in Supporting Schedules for more information).
- The FY 2018 budget includes funding for five less positions than the prior year and a reduction in budgeted turnover from four to two positions resulting in a net decrease of three FTEs compared to the prior year.
- The FY 2018 budget reflects reorganizational changes related primarily to the engineering function.
- Fringe benefits are budgeted based on actual enrollment and a weighted average for unfilled positions.

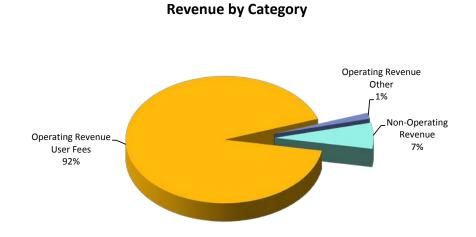
- Consumer Price Index (CPI) projected an increase of 3.0% in the prorated contracted biosolids disposal rate and a combined lower production at Field's Point and Bucklin Point of 352 dry tons.
- A 5.4% increase in the electricity supply rate to \$0.06336 per kWh effective through June 30, 2018.
- Electricity use and expense reflects the net impact of NBC's renewable energy resources and the calculation is discussed in detail on pages 66 and 67 in the Expense Profile section.
- Decrease of 3.8% in the budgeted natural gas supply rate and net decrease in the number of therms budgeted of 1.6% from the prior year.
- Chemical rate changes as follows:

	Price per Unit						
		FY 2017		FY 2018	% Change		
Hypochlorite	\$	0.51070	\$	0.52090	2.0%		
Bisulfite		1.03000		1.12000	8.7%		
Sodium Hydroxide		1.32400		1.69480	28.0%		
Carbon Feed		2.15000		2.10000	(2.3%)		
Polymer-Liquid		1.09200		1.11000	1.6%		
Polymer-Powder		2.25000		1.92000	(14.7%)		
Soda Ash		0.22440		0.20350	(9.3%)		

Other Assumptions:

- FY 2018 Programmed New Debt is based on the Long-Term Financial Planning model that reflects the cash flow requirements in the FY 2019-2023 CIP.
- The budget is consistent with the percent of user fees restricted for debt service and debt service coverage that are transferred from the Revenue Fund into the Debt Service Fund monthly. Principal and interest payments are made from the Debt Service Payment Accounts and the debt service coverage is deposited into the Stabilization Account. The PUC has authorized the transfer of the funds in the Stabilization Account to the Project Fund for funding operating capital and direct funding of capital projects, as well as funding of the Operating Reserve for Revenue Stability Fund. Upon the completion of the fiscal year, a calculation is made to determine the amount that can be transferred from the Stabilization Account to the Project Fund for the PUC approved uses. In FY 2018, \$5.3 million is available in the Project Fund to fund FY 2018 operating capital.
- The budget is consistent with the flow of funds set forth in the Trust Indenture and Twenty-Four Supplemental Trust Indentures (see Fund Definitions in the Budget Process and Policies section).

Revenue Profile



Budgeted revenue in FY 2018 is approximately \$105.6 million or 0.5% less than FY 2017. This is the net effect of a 0.2% increase in operating revenue and a 9.0% decrease in non-operating revenue. Historical and budgeted revenue is shown in the table below.

Revenue	FY 2015 Actual	FY 2016 Actual	FY 2017 Budget	FY 2018 Budget	Percent Change
Operating Revenue					
User Fees	\$ 92,007,299	\$ 96,078,624	\$ 96,899,643	\$ 97,058,926	0.2%
Pretreatment Fees	1,076,481	1,088,763	1,100,000	1,100,000	0.0%
Septage	336,037	358,719	325,000	325,000	0.0%
Connection Permit Fees	100,906	124,450	125,000	130,000	4.0%
Total Operating Revenue	93,520,723	97,650,556	98,449,643	98,613,926	0.2%
Non-Operating Revenue					
Investment Income	5,839	112,094	5,000	120,000	2300.0%
Late Charges	999,867	932,178	930,000	900,000	(3.2%)
Transfer from Operating Capital	2,831,086	3,652,894	5,479,500	5,310,678	(3.1%)
Miscellaneous	652,914	626,115	1,261,728	286,400	(77.3%)
Renewable Energy Credits*		-	-	371,885	0.0%
Total Non-Operating Revenue	4,489,706	5,323,281	7,676,228	6,988,963	(9.0%)

 Total Revenue
 \$ 98,010,429
 \$ 102,973,837
 \$ 106,125,871
 \$ 105,602,889
 (0.5%)

* Included with Miscellaneous Non-Operating Revenue Prior to FY 2018

Of the \$105.6 million in total revenue, approximately \$97.1 million is from user fees, \$1.6 million is from other operating revenue and \$7.0 million is from non-operating revenue. Looking at a four-year trend, NBC's largest source of revenue, user fees, has increased by 5.5% since FY 2015. This has been primarily for debt service and debt service coverage to finance NBC's Capital Improvement Program.

NBC has raised rates five times in the last six years. In addition to supporting debt service, these rate increases have been required to adjust for changes in NBC's rate base. The rate base was adjusted for declining consumption, the "downsizing" of non-residential meters and the decline in the number of non-residential meters. A portion of two rate increases also supported higher operating expense. The chart on the following page shows NBC's rate increase history since January 1, 2013.

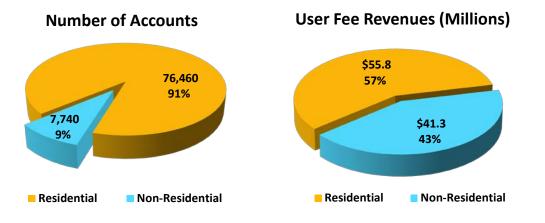
Rate History										
Effective Date	1/1/2013	7/1/2013	9/19/2014	7/1/2015	7/1/2016					
Type of Filing	Compliance	General	General	Compliance	Compliance					
Purpose	Debt	O&M/Rate Base	O&M/Rate Base	Debt	Debt					
Revenue Increase	7.09%	9.32%	3.83%	2.29%	1.48%					
User Rate Increase	7.35%	9.67%	3.97%	2.40%	1.53%					
Average Annual Residential Fee (150 gpd)	\$403	\$442	\$459	\$470	\$477					

On a year-to-year basis, budgeted user fees have increased by 0.2% over last year's budget reflecting FY 2017 rate base with a minor adjustment for revenue associated with a new commercial user projected to connect to NBC's system in November 2017. Budgeted Septage revenue remains unchanged from the prior year and Connection Permit Fee revenue is budgeted 4% higher than last year. Budgeted late charge revenue is \$30,000 or 3.2% lower than the prior year as receivables are declining. The budgeted transfer from Operating Capital is \$168,822 or 3.1% lower than FY 2017. Lastly, this year's budget provides additional information related to the Renewable Energy Credit ("REC") revenue generated from NBC's renewable resource projects. Previously included in the miscellaneous revenue line item, this year's budget now shows this revenue source as a separate line item with a FY 2018 budgeted level of \$371,885. These changes are discussed in more detail in the following sections on Operating and Non-Operating Revenue.

Operating Revenue

In FY 2018, user fees represent 98.4% of the projected operating revenue and 91.9% of total revenue. Revenue projections are calculated based upon projected user fees for residential and non-residential user classifications. Residential customers include residential structures up to and including six dwelling units, and all condominiums, regardless of the number of dwelling units. NBC projects that in FY 2018 residential user fees will be billed to approximately 76,460 accounts with approximately 119,200 dwelling units within the service area. Non-residential accounts include residential structures containing more than six dwelling units, commercial, mixed-use and industrial properties. There are approximately 7,740 non-residential accounts with approximately 8,200 billable meters. The FY 2018 budget does not include an increase in the number of residential dwelling units. NBC has included a projected user fee revenue increase of \$135,950 related to consumption as well as \$23,333 from the Johnston Sewer Improvements/Greenville Avenue Project (30460).

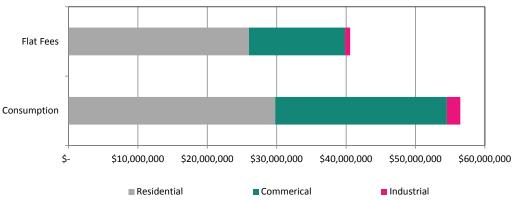
Residential customers make up 91% of NBC's sewer user accounts and generate 57% of total user fees. Conversely, non-residential customers comprise 9% of total sewer user accounts and generate 43% of total user fees. The revenue recovery allocation between the residential and non-residential accounts is in closer alignment with the relative billable consumption which is 61% and 39%, respectively. The charts below show the residential versus non-residential split between the number of accounts and user fees billed.



Residential and Non-Residential Accounts

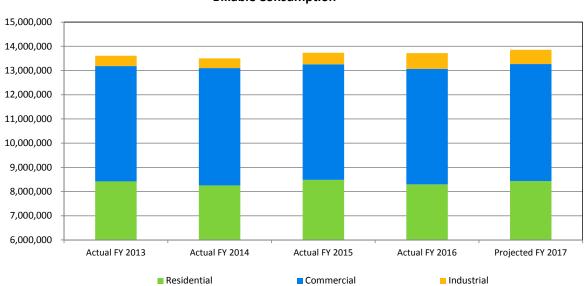
NBC's sewer user charges consist of a flat fee and a consumption fee. The flat fee is based on the number of dwelling units for residential customers and billable meters by meter size for non-residential customers. The projected user fee revenue is based upon the FY 2017 billed revenue, with higher flat fees of \$23,333 to reflect a new large commercial user anticipated to connect to NBC's sewer system in November.

	FY 2018 Buc	FY 2018 Budgeted User Fee Revenue							
	Consumption	Consumption Flat Fees							
Residential	\$ 29,778,335	\$ 26,003,254	\$ 55,781,589						
Commerical	24,742,457	13,849,474	38,591,931						
Industrial	1,944,430	740,976	2,685,406						
Total	\$ 56,465,222	\$ 40,593,704	\$ 97,058,926						



FY 2018 Budget User Fee Revenue

■ Residential ■ Commerical ■ Industrial With respect to consumption fees, this revenue is calculated based upon water usage. The total billable consumption rate base appears to have stabilized with the billable industrial consumption approximately 46% higher than FY 2014 levels. NBC is budgeting FY 2018 consumption based on the projected FY 2017



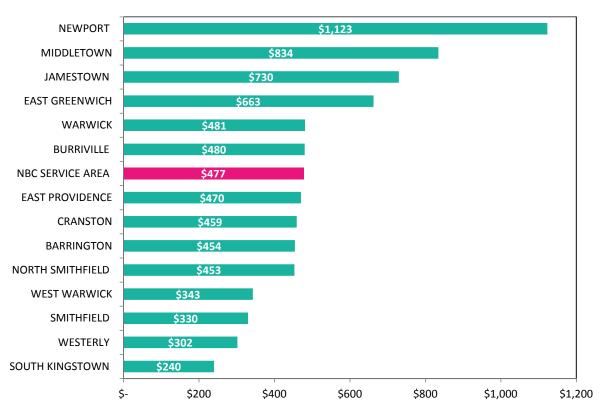
Billable Consumption

billable consumption.

NBC's did not file for rate relief in FY 2017 and the most recent rate increase was 1.53% effective July 1, 2016. The table below shows NBC's FY 2018 user rates for residential and non-residential users. At these rates, NBC's estimated average annual residential sewer user charge based on annual usage of 150 gallons per day is \$477.

NBC User Fees Effective 7/1/2016									
Residential:	Non-Residential								
Customer Charge - based on number of	of Dwelling Units	Meter Size	Charge						
Residential Customer Charge:	\$218.80 /dwelling unit	5/8"	\$523						
Consumption Charge	\$3.531 /hcf	3/4"	\$782						
Total Annual Average Residential Rate	e \$477	1"	\$1,300						
(Based on 73.2 hcf* or 150 gallons per	day)	1 1/2"	\$2,607						
		2"	\$4,164						
Non-Residential:		3"	\$7,802						
Customer Charge - Based on Meter Siz	e	4"	\$13,000						
Commercial Consumption Charge	\$5.120 /hcf	6"	\$26,010						
Industrial Consumption Charge	\$3.292 /hcf	8"	\$41,615						
*hcf=hundred cubic feet		10"	\$59,824						

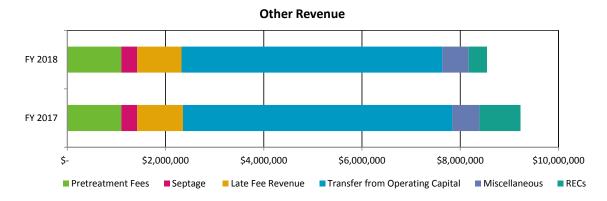
In FY 2017, NBC began to calculate the average annual residential user charge based on consumption of 150 gallons per day, the updated actual average consumption per dwelling unit. The table below shows the results of NBC's 2016 sewer rate survey based upon usage of 150 gallons per day. It shows that despite NBC's large operations and significant capital improvements, NBC's average residential user rate of \$477 is below the State average of \$523.



2016 Annual Rhode Island Residential Sewer Charges

Other Revenue

The chart below shows that the largest source of other revenue is the operating capital transfer, followed by pretreatment fees, late fees and miscellaneous revenue. Overall, budgeted other revenue is \$682,265 or 7.4% less in FY 2018 than the prior year.



Other Operating Revenue

While the primary source of operating revenue is user fees, NBC has other operating revenue such as pretreatment fees, septage fees, and sewer connection permits, which represent approximately 1.6% of total budgeted operating revenue.

The NBC is federally mandated to have a Pretreatment program that controls the discharge of metals and other toxic chemicals into the sewer system. To accomplish this, NBC requires certain users to obtain a discharge permit so that NBC can limit and monitor permitted discharges into the sewer system. Customers are billed pretreatment fees based on a user classification system. In order to keep fees consistent with industry levels, these fees have not increased since FY 2004. The FY 2018 budgeted Pretreatment fee revenue is the same as the prior year.

Septage fees are paid by permitted haulers based upon the amount of septage that they discharge at NBC's Septage Receiving Station. In FY 2018 septage revenue is projected to remain unchanged from the FY 2017 budgeted level.

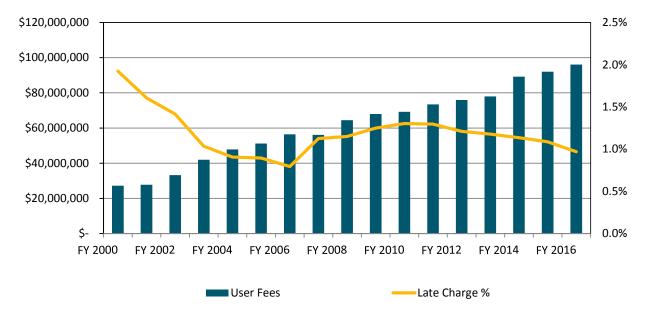
NBC's connection permit fees, for new sewer connections to NBC facilities are budgeted 4% higher in the FY 2018 budget year based upon FY 2017 activity.

Non-Operating Revenue

Non-Operating revenue includes investment income, late charges and other miscellaneous revenue. It also includes the transfer from operating capital which is a funding mechanism approved by the PUC that allows a portion of the prior year's debt service coverage to be used to fund operating capital. Total Non-Operating revenue is projected to decrease \$687,265 in FY 2018, a decrease of approximately 9.0% from the FY 2017 budget.

In FY 2018, investment income revenue is budgeted \$115,000 or 2300% higher than the FY 2017 budgeted level. Late charge revenue is projected to decrease by 3.2% or \$30,000 from the prior year due to effective collection activity which has reduced receivables. Late fees are assessed at the rate of 1% per month on any unpaid balance 30 days after the billing date, including any outstanding late fees. The chart below shows how

late fee revenue as a percentage of user fee revenue has been declining over the past four fiscal years, an indication of effective collections.



Late Fees as a Percentage of User Fee Revenue

This year's budget reflects a decrease in the Transfer from Operating Capital of approximately \$168,822, or 3.1% from the FY 2017 budget. This is a pass-through and matches the amount budgeted for operating capital.

In the FY 2018 budget, miscellaneous non-operating revenue has been separated into two separate revenue line items, Miscellaneous and Renewable Energy Credits or "REC" revenue. On a year-over-year basis, miscellaneous non-operating revenue is budgeted 77.3% or \$658,285 lower, as the financial incentive for the LED replacement budgeted last year was non-recurring and the REC revenue is now budgeted separately. With respect to REC revenue, the FY 2018 budget is 56% lower than the prior year due to falling REC rates. The table below shows the projected REC revenue in FY 2018 at rates of \$26 to \$20 per REC, which is significantly lower than historical rates of \$50/REC. The budget figures are based upon the assumption that the biogas reuse facilities at Bucklin Point will be operational for one month in FY 2018.

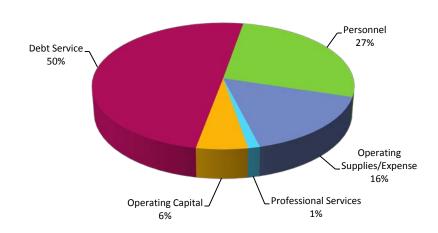
FY 2018 Renewable Energy Credit (REC) Revenue									
Location	Number of RECs	Rate per REC	Revenue*						
Field's Point Turbines	7,308	\$ 26	\$ 190,000						
WED Turbines	8,695	20	174,000						
Biogas Reuse	399	20	8,000						
Total	16,402		\$ 372,000						

* Rounded to nearest thousand

Expense Profile

Expense by Element

The chart below shows the fiscal year 2018 operating expense by element. Debt Service accounts for nearly half of the total budget, at 50%, with the next largest expense category being Personnel, at 27% of the budget followed by Operating Supplies and Expense at 16% of the budget.

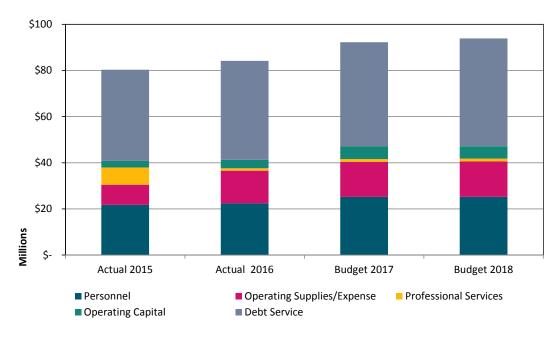


FY 2018 Operating Budget by Element of Expense

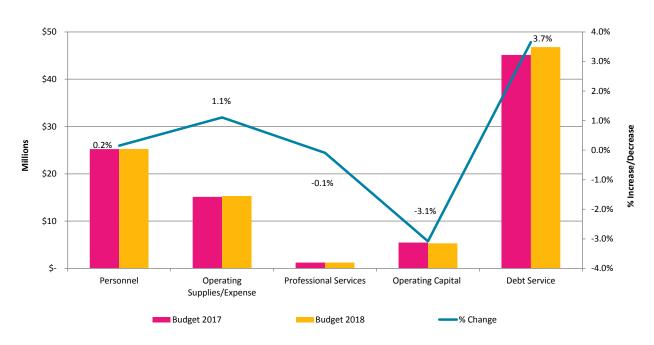
NBC's total Operating Budget for FY 2018 is \$93,906,166 excluding Debt Service Coverage. This is an increase of approximately \$1.7 million, or 1.8% from the approved FY 2017 budget. The table below and chart on the following page show historical and budgeted expense over a four-year period.

	Actual 2015	Actual 2016	Budget 2017	Budget 2018	FY 17 - FY 18 % Change	FY 2018 % Budget
Personnel	\$ 21,766,376	\$ 22,401,349	\$ 25,225,531	\$ 25,264,376	0.2%	26.9%
Operating Supplies/Expense	8,745,189	14,177,379	15,140,547	15,308,168	1.1%	16.3%
Professional Services	7,469,034	1,019,108	1,237,150	1,236,050	(0.1%)	1.3%
Total Operation & Maintenance	37,980,599	37,597,836	41,603,228	41,808,594	0.5%	44.5%
Operating Capital	2,831,086	3,652,894	5,479,500	5,310,678	(3.1%)	5.7%
Debt Service	39,503,789	42,907,662	45,137,622	46,786,894	3.7%	49.9%
Total	\$ 80,315,474	\$ 84,158,392	\$ 92,220,350	\$ 93,906,166	1.8%	100.0%

Budget by Element of Expense



The graph below compares budgeted expense in fiscal year 2017 to 2018 and illustrates the increases and decreases for each element of expense. Expense has increased in three of the five categories over the prior year's budget. Personnel Expense increased by 0.2% or \$38,845; Operating Supplies/Expense increased by 1.1%, or \$167,621; Professional Services decreased by 0.1%, or approximately \$1,100; Operating Capital decreased by 3.1% or \$168,822; and Debt Service increased by 3.7% or \$1,649,272 from last year's budget.



FY 2017/2018 Budget Comparison of Expense by Element

Major highlights by element of expense are discussed in the sections that follow.

Personnel

Personnel expense consists primarily of employee wages and benefits, employer payroll taxes and unemployment expense. Personnel expense is budgeted net of capital reimbursements for staff working on capital projects. The FY 2018 budgeted personnel expense is \$25.3 million, which represents a net increase of approximately 0.2% or \$38,845 over the prior year.

The NBC employs non-union employees and union employees. The NBC's union employees are members of either the Rhode Island Laborers' District Council Public Service Employees' Local 1033 of the Laborers' International Union of North America (LIUNA), American Federation of Labor - Congress of Industrial Organizations (AFL-CIO), or of the Rhode Island Council 94, American Federation of State, County and Municipal Employees (AFSCME), AFL-CIO, Local 1010 and Local 2884.

With respect to salaries and wages, this year's budget includes contracted step increases and the negotiated COLA (for union employees in accordance with the CBA contract. Salaries for non-union employees reflect comparable merit increases (3.0%).

Budgeted Positions and Reorganization

The FY 2018 budget reflects five fewer budgeted positions however turnover has been reduced from 4.0 FTEs to 2.0 FTEs. As a result, the net number of positions funded in FY 2018 is 267.0 FTEs or 3.0 FTEs less than FY 2017. This year's budget also reflects changes to the organizational chart that occurred in FY 2017, a reorganization of the Engineering function and funding for a number of proposed non-union grade changes.

		Union FTEs		Non-Union FTEs				Total FTEs	
		FY 2018			FY 2018				Change
СС	FY 2017	Changes	FY 2018	FY 2017	Changes	FY 2018	FY 2017	FY 2018	2017/2018
21	-	-	-	8	-	8	8	8	-
22	-	-	-	11	(1)	10	11	10	(1)
24	-	-	-	5	-	5	5	5	-
25	-	-	-	-	7	7	-	7	7
31	-	-	-	5	1	6	5	6	1
23	1	-	1	3	-	3	4	4	-
32	2	-	2	8	-	8	10	10	-
33	-	-	-	12	-	12	12	12	-
34	15	-	15	10	-	10	25	25	-
36	1	(1)	-	3	-	3	4	3	(1)
43	14	(3)	11	6	1	7	20	18	(2)
44	-	-	-	9	(2)	7	9	7	(2)
46	43	(1)	42	16	(4)	12	59	54	(5)
47	38	(1)	37	7	1	8	45	45	-
51	-	-	-	5	(2)	3	5	3	(2)
52	3	-	3	11	-	11	14	14	-
53	9	-	9	8	-	8	17	17	-
54	-	-	-	4	-	4	4	4	-
55	9	-	9	8	-	8	17	17	-
	135	(6)	129	139	1	140	274	269	(5)

Less: Turnover	(4.0)	(2.0)	2.0
Net Positions	270.0	267.0	(3.0)

The five positions funded in FY 2017 that are not funded and/or have not been reallocated in FY 2018 budget are identified in the following table:

Construction	IM	Field's Point	
Senior Resident Representative (Non-Union)	Operator/HEO (Union)	Operator I (Union)	
	Operator II (Union)		
	Mechanic (Union)		

This year's budget also reflects organizational changes designed to meet future demands with specific emphasis on engineering and operations related functions. A new cost center, number 25, has been created and the personnel and support costs associated with the Engineering functions have been transferred to this new section. In addition, the cost center will now report to the Director of the newly titled Construction and Engineering Division. A number of changes to Division and Section names were also implemented to reflect the primary responsibilities as they have been assigned. The other significant organizational change is the reallocation of four positions responsible for the process control and asset management functions to the newly named Operations & Maintenance Services section. Please refer to the table below where the organizational changes have been highlighted.

То	
Construction & Engineering Division	
22 Construction Services Section	
NEW 25 Engineering Section	
Operations & Maintenance Division	
43 Interceptor Maintenance	
44 Operations & Maintenance Services	
46 Field's Point	
47 Bucklin Point	
Environmental Science & Compliance Division	
51 Water Quality & Compliance	
52 Pretreatment	
53 Laboratory	
54 ESTA	
55 EMDA	

The table below provides the detail of the how the positions are assigned as a result:

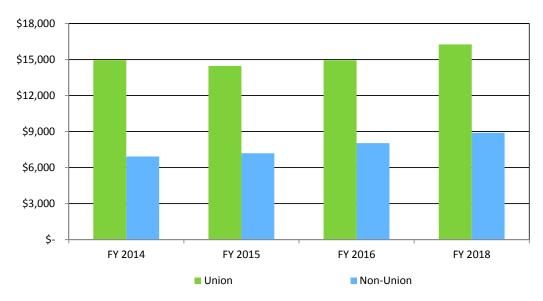
From		То			
Cost Center	Title	Cost Center	Title		
44	ENGINEERING MANAGER	25	ENGINEERING MANAGER		
44	FACILITIES ENGINEER	25	FACILITIES ENGINEER		
44	PRINCIPAL ENVIRONMENTAL ENGINEER	25	PRINCIPAL ENVIRONMENTAL ENGINEER		
44	PRINCIPAL ENVIRONMENTAL ENGINEER	25	PRINCIPAL ENVIRONMENTAL ENGINEER		
44	ENVIRONMENTAL ENGINEER	25	ENVIRONMENTAL ENGINEER		
44	INSTRUMENTATION ENGINEER	43	INSTRUMENTATION ENGINEER		
51	PERMITS COORDINATOR	25	PERMITS COORDINATOR		
46	CONTROL SYSTEMS ADMINISTRATOR	44	CONTROL SYSTEMS ADMINISTRATOR		
46	ASST. CONTROL SYSTEM ADMINISTRATOR	44	ASST. CONTROL SYSTEM ADMINISTRATOR		
46	ASSET MANAGEMENT ADMINISTRATOR	44	ASSET MANAGEMENT ADMINISTRATOR		
46	CONTROL SYSTEMS ASSOCIATE	44	CONTROL SYSTEMS ASSOCIATE		

One additional non-union position is funded in the finance section and one less union position is funded in the Purchasing section. In addition, the budget supports a number of position title and grade changes to reflect increased and/or modified duties and responsibilities.

FY 2018 budgeted overtime for union and non-union employees, is \$42,000 and \$33,500 higher respectively. This reflects increased hours related to mandatory sampling and analysis as well as other requirements associated with continuous operation of the wastewater treatment facilities 24 hours per day.

Benefits

Union employees participate in the Employees' Retirement System of Rhode Island (ERSRI). ERSRI sets the annual employer contribution rate for both the pension and retiree health benefits. The FY 2018 employer contribution to the Union Pension benefit remained at the FY 2017 budget rate of 26.34%. The budget for the union pension decreased \$20,553 from the prior year budget due to fewer budgeted union positions. The budget includes \$81,084 less in the non-union retirement expense line item, a function of the NBC's pension funding goals. The following chart shows that the average employer retirement contribution per FTE for union employees is nearly double that of non-union employees.



Average Budgeted Pension Expense per FTE

In FY 2018, NBC will offer a HDHP with partial employer funding of a HSA and/or HRA. This budget reflects a net increase of 12.1% to the health insurance budgeted line item as a result of an increase in the insurance premium. Dental insurance premiums are unchanged from FY 2017, vision insurance premiums increased by 11.3%. There was a 5% increase in the non-union Long-Term Disability insurance premium over the prior year level.

Family Coverage	FY 2014	FY 2015*	FY 2016*	FY 2017*	FY 2018*	FY17 - FY18 % Change
Health (net of co-pay)*	\$ 17,673	\$ 13,156	\$ 13,576	\$ 15,342	\$ 17,202	12.1%
Dental	1,228	1,335	1,435	1,510	1,510	0.0%
Vision	195	195	195	195	217	11.3%
Total	\$ 19,096	\$ 14,686	\$ 15,207	\$ 17,047	\$ 18,929	11.0%

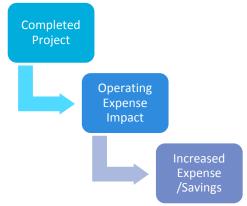
*Does not include \$3,600 NBC HSA Contribution/Employee

Operating Supplies and Expense

Operating Supplies and Expense (OSE) represent 16.3% of the total FY 2018 operating budget not including debt service coverage. On an ongoing basis, the largest operating expense is related to the wastewater treatment processes and includes biosolids disposal, utilities, chemicals, repairs to buildings and structures, maintenance contracts, service agreements, and insurance expense. Overall, the FY 2018 OSE budget increased 1.1% or \$167,621 from the FY 2017 budget.

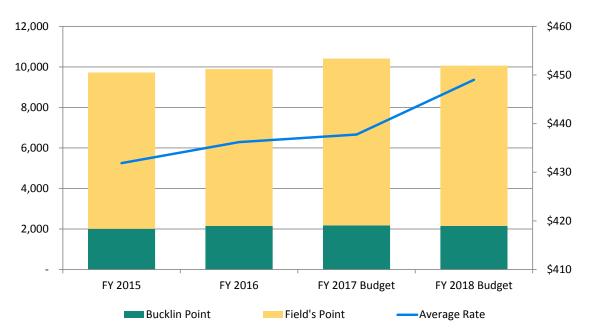
CIP Operating Expense Impacts

The FY 2018 budget includes additional information regarding the operating expense impact, identified on a project by project basis. NBC recognizes the importance of financial planning and certain capital improvements will directly impact operating expense. The impact is shown as either an increase in expense or savings (a reduction in expense). NBC plans on one month or 399,244 kWh of electricity generation from the Bucklin Point Biogas Reuse project scheduled to be on-line in June 2018.



The expense impact on future years and an in-depth overview of the operating impacts by project are provided in the CIP Impact and Long-Term Plan section of this document.

Approximately 29.5% of NBC's FY 2018 budgeted OSE is for biosolids disposal at the WWTFs. The FY 2018 budget reflects a projected increase in the contracted biosolids rate of 3.0% or approximately \$11.26 per dry ton which is offset by lower budgeted dry ton production. The budget reflects 322 fewer dry tons produced at Field's Point and 30 fewer dry tons produced at Bucklin Point. Overall, the biosolids disposal expense is \$40,791 lower than the FY 2017 budgeted level. The following chart illustrates the historical and budget data for biosolids dry ton production and average disposal rates.



Biosolids Dry Tons and Disposal Rate

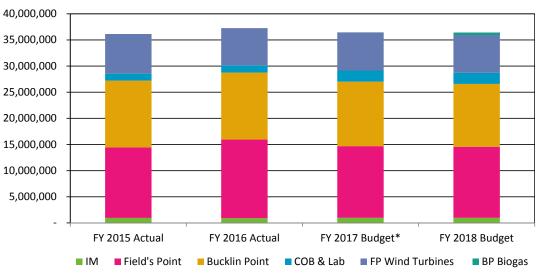
The FY 2018 electricity usage is a complex calculation that takes into consideration NBC's renewable energy sources. The first step is the determination of the number of kWh to be budgeted. The FY 2018 budgeted kWh usage is based upon the following assumptions:

- Purchased kWh for IM, COB and Lab locations is based on FY 2017 usage
- Field's Point purchased kWh based upon 2-year average less projected WED credits
- Bucklin Point purchased kWh based upon 2-year average less projected WED credits
- Field's Point wind turbine kWh production is based on FY 2017 budget level
- WED turbine kWh production is based on annualized FY 2017 performance at 98%

Budgeted kWh									
Facility	FY 2015	FY 2016	FY 2017	FY 2018	Budgeted				
Facility	Actual	Actual	Budget*	Budget	Difference				
Interceptor Maintenance	964,895	914,657	970,301	970,301	-				
Field's Point	13,478,792	15,036,343	13,713,269	13,594,741	(118,528)				
Bucklin Point	12,772,811	12,804,747	12,342,981	12,029,756	(313,225)				
COB & Lab	1,334,983	1,392,427	2,119,297	2,119,297	-				
kWh	28,551,481	30,148,174	29,145,848	28,714,095	(431,753)				
FP Wind Turbines kWh	7,585,477	7,111,499	7,307,579	7,307,579	-				
BP Biogas kWh	-	-	-	399,244	399,244				
Total kWh	36,136,958	37,259,673	36,453,427	36,420,918	(32,509)				

*Budgeted kWh and Expense modified based on Schedule B's for Net Metering Credits

As is shown in the table above and the chart below, the FY 2018 budget is based on usage of 36,420,918 kWh which is 32,509 kWh less than the prior year.



Budgeted Electricity (kWh)

The next step is to calculate the electricity expense. The FY 2018 budget incorporates the electricity expense impacts of NBC's renewable energy projects. The location of the renewable energy facility impacts how NBC realizes the resulting financial benefit. There are differences between the two types of renewable energy resource facilities. Specifically, "Behind the Meter" projects reduce NBC's purchase of electricity whereas the

^{*}Budgeted kWh and Expense modified based on Schedule B's for Net Metering

"Net-Metered" projects reduce NBC's electricity expense through the application of renewable energy credits. The table below highlights some of the distinctions.

Budgetary Impact of Renewable Energy Resources								
"Behind the Meter" Projects	"Net Metered" Projects							
Field's Point Wind Turbines	WED Turkings							
Biogas Reuse	WED Turbines							
Energy is produced and used on-site	Energy is produced off-site and net metered							
Reduces the kWh purchased through National Grid	Generates credits – applied to National Grid invoices							
Reflected as a reduction in purchased kWh	Reflected as a reduction in National Grid Expense							
NBC saves supply, distribution and related costs	Renewable Energy Credit rate is variable based on C-06 Rate							
Generates REC Revenue	Generates REC Revenue							

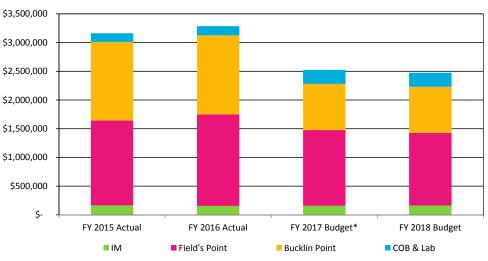
Additional assumptions with respect to the calculation of budgeted electricity expense as follows:

- Renewable Energy Credit rate is assumed to be the same as NBC composite rate for Field's Point and Bucklin Point of \$0.1189/kWh
- 100% of the WED 3 credits shall be applied to Field's Point
- 100% of the WED 1 and WED 4 credits shall be applied to Bucklin Point
- NBC purchased electricity supply rate is \$0.06336 per kWh
- NBC's new biogas reuse facility will generate one month of electricity in FY 2018

Budgeted Electricity Expense Post Net Metering Credits									
Facility	FY 2015 Actual	FY 2016 Actual	FY 2017 Budget*	FY 2018 Budget	Budgeted Difference				
Interceptor Maintenance	\$ 164,689	\$ 156,599	\$ 158,818	\$ 163,063	\$ 4,245				
Field's Point	1,477,618	1,592,525	1,318,283	1,265,670	(52,613)				
Bucklin Point	1,369,069	1,375,846	802,954	800,177	(2,777)				
COB & Lab	151,349	160,733	244,723	245,896	1,173				
Total Expense	\$ 3,162,725	\$ 3,285,703	\$ 2,524,778	\$ 2,474,806	\$ (49,972)				

*Budgeted kWh and Expense modified based on Schedule B's for Net Metering Credits

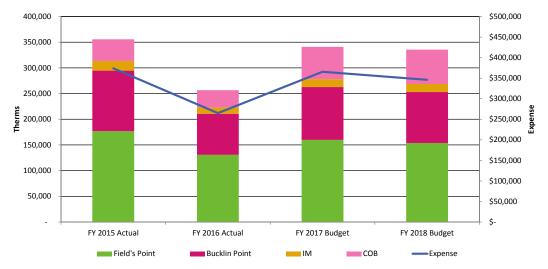
The table above shows that the FY 2018 electricity budget is \$2,474,806 which is \$49,972 or 2.0% lower than the prior year. The chart below shows that NBC's electricity expense is projected to decline more than \$800,000 from FY 2016 levels as a result of the purchase of the WED turbines.



Budgeted Electricity Expense

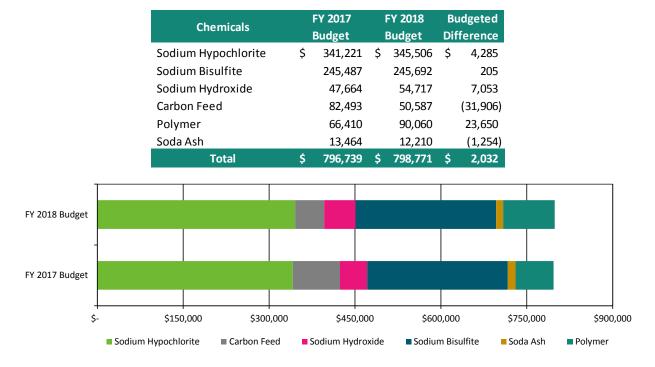
*Budgeted kWh and Expense modified based on Schedule B's for Net Metering

The FY 2018 budgeted natural gas expense represents approximately 2.3% of the OSE budget. The budgeted amount of \$346,180 is based on projected use of 335,512 therms at a supply rate of \$1.032 per therm, 3.8% lower than the prior year's rate. Overall budgeted therms have decreased by 1.6% from the prior year and represent a 24-month average usage for existing facilities and includes usage for the new WQS Building. The year-to-year budgeted gas use and expense is shown in the following chart.



NBC Natural Gas Use and Expense

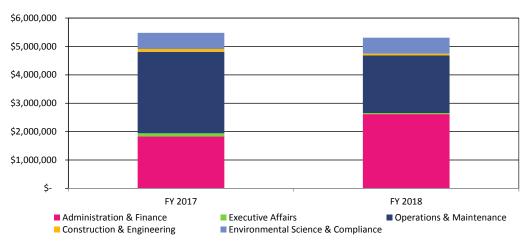
The chemical expense for both the Bucklin Point and Field's Point Wastewater Treatment Facilities represents approximately 5.2% of the FY 2018 OSE budget. Budgeted chemical expense is \$798,771 in FY 2018. Overall, chemical use is projected to be lower for two of the six chemicals, while the prices for some chemicals are higher and others are lower than the prior year. As a result, the budget is \$2,032 or 0.3% higher than the prior year. The table below shows the change in budgeted chemicals compared to the prior year.



NBC Chemical Use and Expense

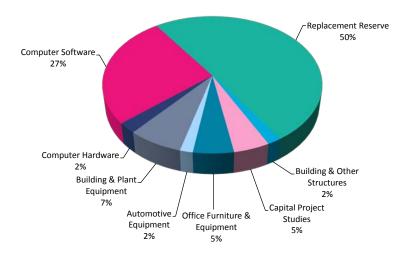
Operating Capital

Operating capital makes up 5.0% of the FY 2018 operating budget. The operating capital budget funds the needs identified through NBC's asset management system such as fleet vehicles, laboratory equipment, and pumps necessary for the collection and treatment of wastewater as well as building and IT investments. On a year-to-year basis, this element of expense shows a decrease of 3.1%, from approximately \$5.5 million in FY 2018 as shown in the graph below.



Budgeted Operating Capital Expense

The single largest item included in the operating capital budget is for the Customer Service Application for Customer Service at a cost \$900,000. Other major items include two large specialized vehicles needed by both the Interceptor Maintenance and Field's Point sections, the LIMs Application and a User Fee Rate Study. Lastly, the FY 2018 budget includes \$430,000 for a SAN and Backup Solution Replacement. The IT investments account for the majority or 49% of the total FY 2018 operating capital budget. The allocation of NBC's FY 2018 Operating Capital budget by type of expenditure is illustrated in the chart below.

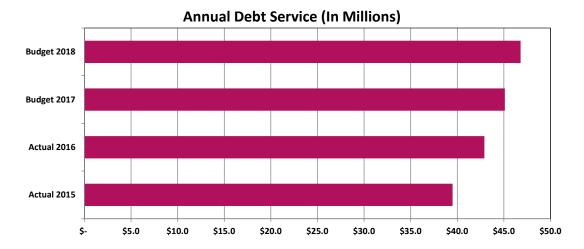


FY 2018 Operating Capital Expenditure Type

As noted previously in this budget document, Operating Capital is funded from the prior year debt service coverage. For a complete list of the actual items budgeted in this category see the FY 2018 Operating Capital and the Five-Year Operating Capital schedules in the supporting schedules section.

Debt Service

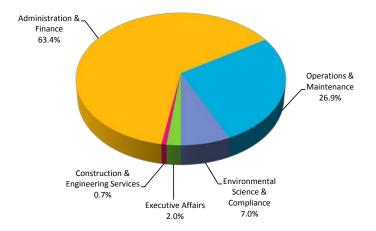
Debt service is the largest element of expense in NBC's FY 2018 budget, representing 44.3% of the total budget. NBC's budgeted debt service for FY 2018 is 3.65% greater than last year's budget and no new debt is anticipated to be issued in FY 2018. Total debt service budgeted in FY 2018 is approximately \$46.8 million. The graph below shows actual and budgeted existing and programmed new debt for the four-year period beginning FY 2015.



For more on the capital projects and related financing, please refer to the CIP Impact and Long-Term Plan in this document.

Expense by Division

NBC is organized into five Divisions. The graph below depicts the percentage of the FY 2018 budget that the Divisions represent.



A number of organizational changes were incorporated into the FY 2018 budget and these are detailed in the Personnel section of the budget beginning on page 62. In prior years, the Executive Affairs Division and Construction Services Division were shown on a combined basis. Now that the Engineering function is part of the newly named Construction and Engineering Services Division, costs for the two Divisions are presented in the FY 2018 budget separately and it is difficult to compare the costs for these areas on a year-to-year and historical basis. Overall, the Executive Affairs, Engineering and Constructions Services, and the newly named Environmental Science and Compliance Divisions represent 2.0%, 0.7% and 7.0% of the total budget.

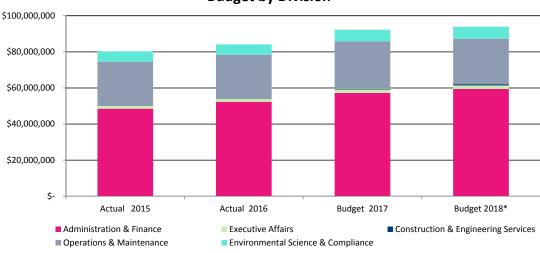
The Administration and Finance Division represents 63.4% of the total FY 2018 operating budget, reflecting the fact that debt service is contained in this division's budget. The Division includes Human Resources, Finance, Accounting, Information Technology, Customer Service, Purchasing and the General Administration sections. The FY 2018 budget is \$2.3 million or 4.0% greater than the FY 2017 budget. Personnel decreased by \$96,734. Operating supplies and expense and professional services decreased by \$76,602 from the prior year and reflect no budgeted lease expense or rate relief filing expense. Operating Capital increased by \$790,000 and reflects Information Technology investments. Debt service increased by \$1.6 million over the prior year, reflecting the debt service associated with NBC's 2015 Series B and 2016 Series A bonds.

The Operations and Maintenance Division represents approximately 26.9% of the total operating budget. This Division includes the Field's Point and Bucklin Point WWTFs, the Interceptor Maintenance and the Operations & Maintenance Services sections. The budget for the Operations and Maintenance Division decreased by 3.9% or \$1.0 million from the FY 2017 budget. Personnel decreased by \$220,377 or 1.8% as a result of organizational changes and funding for nine fewer budgeted positions compared to the prior year, as discussed previously. Operating supplies and expense and professional services have increased by approximately \$101,888 and include service agreements for electrical testing and the Field's Point wind turbines. Operating Capital reflects a decrease of \$907,100 from the prior year.

The Environmental Science & Compliance Division consists of the Water Quality & Compliance (WQ Compliance), Pretreatment, the Laboratory, Environmental Safety and Technical Assistance (ESTA), and Environmental Monitoring and Data Analysis (EMDA) sections. This Division represents 7.0% of the total budget and increased by 2.8% or \$177,008 from the prior year. Personnel expense increased by \$116,120 or 2.3%. Operating supplies and expense and professional services expense have increased by \$67,610 over the prior year and include maintenance contracts for critical laboratory and monitoring equipment. Operating Capital decreased by \$6,722 from the prior year.

	Actual	Actual	Budget	Budget	FY 17 - FY 18	FY 2018 %
	2015	2016	2017	2018*	% Change	of Budget
Executive Affairs	\$ 1,605,228	\$ 1,575,081	\$ 1,904,820	\$ 1,888,606	(0.9%)	2.0%
Construction & Engineering Services	208,682	121,641	372,960	657,634	76.3%	0.7%
Administration & Finance	48,540,541	52,297,455	57,240,306	59,506,242	4.0%	63.4%
Operations & Maintenance	24,201,568	24,365,565	26,288,591	25,263,002	(3.9%)	26.9%
Environmental Science & Compliance	5,759,455	5,798,650	6,413,673	6,590,681	2.8%	7.0%
Total	\$80,315,474	\$ 84,158,392	\$ 92,220,350	\$ 93,906,165	1.8%	100.0%

*First year Executive and Construction were not combined for presentation purposes and also reflects reorganizational changes of the Engineering function



Budget by Division

More detailed data for each Division may be found in the Division Summaries section of this document.



CIP Impact and Long-Term Plan

This year's CIP identifies a total of 40 projects that are either in progress, to be initiated, or to be completed during FY 2018-2023. The estimated costs for this year's CIP window are \$156.1 million, with additional expenditures of \$48.0 million in FY 2018 for a total of \$204.1 million. The majority or 65% of the expenditures are related to the third and final phase of the Combined Sewer Overflow (CSO) Abatement Facilities. Other projects in the CIP account for the remaining 35% and reflect the continued investment in NBC's wastewater treatment and collection system infrastructure.

CIP Impact on Operating Budget

Certain capital improvements will directly impact the operating budget either through increased revenue, increased expense, or savings. NBC has identified these impacts on a project by project basis. It is particularly important this year as many of NBC's planned capital projects are projected to have a significant impact on NBC's operating budget. The following table describes the impact categories and it should be used to interpret the figures in the detailed operating impact tables in this section of the budget.

Impact	Description	Refection in Tables
Savings	A reduction in operating costs resulting from no longer operating facilities, reduced energy consumption, and/or the purchase of electricity	Shown as a reduction in Operating Costs
Increased Expense	An increase in operating costs resulting from new facilities becoming operational	Shown as an increase in Operating Costs
Increased Revenue	An increase in revenue through new user charges, incentives, and/or the sale of Renewable Energy Credits	Shown as an increase in Operating Revenue or Non- Operating Revenue

FY 2018 Revenue and Expense Impacts

NBC has identified the operating and expense impacts related to ten capital projects that are anticipated to be completed during FY 2018. Of the ten projects scheduled for completion in FY 2018, eight are inspections, restorations, or studies and are not anticipated to have any operating impacts or start-up costs. Two projects, the BPWWTF Biogas Reuse and the Johnston Sewer Improvements/Greenville Avenue are projected to have operating impacts with the combined impact of these projects resulting in a \$31,318 increase in revenue and \$47,483 in savings.

Projects with savings, expense or revenue impacts are discussed in the following section.

Johnston Sewer Improvements/Greenville Avenue

The Johnston Sewer Improvements/Greenville Avenue Project (30460) includes the design and construction of improvements to expand sewers in the Town of Johnston. This project involves the installation of approximately 6,750 linear foot of 12" pipe along Greenville Avenue in Johnston. The revenue generated as a result of new customers connecting to NBC's system is estimated at \$23,333 in FY 2018 and an additional \$257,355 in FY 2019.

Johnston Sewer Improvements/Greenville Avenue									
	FY 2018 FY 2019 Annual								
Increased Revenue									
User Fees	\$	23,333	\$ 257,355	\$ 280,688					
Revenue Impact	\$	23,333	\$ 257,355	\$ 280,688					

BPWWTF – Biogas Reuse

The BPWWTF – Biogas Reuse Project (12000) consists of the installation of a combined heat and power system that will burn biogas generated from the anaerobic biosolids digestion process. This system is projected to generate approximately 4.8 million KWh of electricity annually to be used on-site which will result in estimated purchased electricity savings of \$569,793 and REC revenue of \$95,819 annually. The FY 2018 figures in the table reflect one month of operation and the figures in the FY 2019 column represent the incremental changes in the subsequent year. NBC estimates annual maintenance cost of \$165,000 in future years. All start-up costs are included in the project.

BPWWTF Biogas Reuse										
		FY 2018	F	Y 2019		Annual				
Increased Revenue										
Sale of Renewable Energy Credits	\$	7,985	\$	87,834	\$	95,819				
Revenue Impact	\$	7,985	\$	87,834	\$	95,819				
Savings										
Electricity		(47,483)	(522,310)		(569,793)				
Increased Expense										
Maintenance Contract		-		165,000		165,000				
Net O&M Impact	\$	(47,483)	\$(357,310)	\$	(404,793)				

FY 2019-2023 Revenue and Expense Impacts

The table below summarizes the projected incremental impact of capital projects scheduled to become operational in FY 2018-2023. Projects that involve inspection, studies, cleaning and rehabilitation generally do not have operating cost impacts and are excluded from this list. The FY 2018 impacts have been incorporated into the operating budget. In FY 2023, the estimated impact as a result of these projects is increased annual revenue of \$585,188, savings of \$3.6 million and increased expense of 3.2 million. Projects with revenue, savings or expense impacts are discussed in the following section.

	Incrementa	al CIP Impact	:S			
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Increased Revenue						
BPWWTF Biogas Reuse	\$ 7,985	\$ 87,834	\$ 87,834	\$ 87,834	\$ 87,834	\$ 87,834
Johnston Sewer Improvements/Greenville Avenue	23,333	257,355	257,355	257,355	257,355	257,355
Louisquisset Pike Interceptor Replacement	-	-	240,000	240,000	240,000	240,000
Revenue Impact	\$ 31,318	\$ 345,188	\$ 585,188	\$ 585,188	\$ 585,188	\$ 585,188
Savings						
FPWWTF - Blower Improvements Phase II	-	-	(2,864,264)	(2,864,264)	(2,864,264)	(2,864,264)
BPWWTF Biogas Reuse	(47,483)	(522,310)	(522,310)	(522,310)	(522,310)	(522,310)
BPWWTF UV Disinfection Improvements	-	-	-	-	-	(216,100)
	(47,483)	(522,310)	(3,386,574)	(3,386,574)	(3,386,574)	(3,602,674)
Increased Expense						
Louisquisset Pike Interceptor Replacement	-	-	-	-	-	10,000
Johnston Sewer Improvements/Greenville Avenue	-	-	-	-	-	10,000
FPWWTF - Blower Improvements Phase II	-	-	2,864,264	2,864,264	2,864,264	2,864,264
BPWWTF Biogas Reuse	-	165,000	165,000	165,000	165,000	165,000
New IM Facilities	-	-	-	-	97,288	97,288
FPWWTF New Maintenance Facilities	-	-	-	-	63,000	63,000
Johnston Sewer Improvements/Hartford Avenue	-	-	-	-	-	10,000
Field's Point Drive Interceptor Improvements	-	-	-	-	-	10,000
BPWWTF UV Disinfection Improvements		-	-	-	-	10,600
		165,000	3,029,264	3,029,264	3,189,552	3,240,152
Net O&M Impact	\$(47,483)	\$(357,310)	\$ (357,310)	\$ (357,310)	\$ (197,022)	\$ (362,522)

Louisquisset Pike Interceptor Replacement

Louisquisset Pike Interceptor Replacement Project (30421) is scheduled to be completed in FY 2020. The project consists of the construction of a larger replacement interceptor in the northern section of the Town of Lincoln to accommodate additional flow. Preliminary projections indicate that the flow will generate additional sewer user fee revenue of \$240,000 annually. There are no start-up costs associated with the construction of this interceptor. Operating costs are \$10,000 every five years for maintenance.

Louisquisset Pike Interceptor								
		Savings	Increased			Increased		
	Javings		Expense		Revenue			
User Fees	\$	-	\$	-	\$	240,000		
Maintenance		-		10,000		-		
Total	\$	-	\$	10,000	\$	240,000		

FPWWTF Blower Improvements Phase II

The FPWWTF Blower Improvements Phase II Project (10908) involves the replacement of the Field's Point aeration blowers to provide a reliable air source for in the aeration treatment process. The estimated ongoing operation expense for the blowers is \$2,864,264. Since these blowers are replacing existing equipment, the projected savings is \$2,864,264 and the net impact is zero. The new blowers are scheduled to become operational in FY 2020 and the start-up costs are carried in the project.

FPWWTF Blower Improvements Phase II									
	Savings	Increased	Inc	creased					
	Savings	Expense	Revenue						
Electricity	\$ (2,853,764)	\$2,853,764	\$	-					
Water	(500)	500		-					
Maintenance	(10,000)	10,000		-					
Total	\$ (2,864,264)	\$ 2,864,264	\$	-					

BPWWTF UV Disinfection Improvements

The BPWWTF UV Disinfection Improvements Project (81000) involves the evaluation, design, and construction of a new UV Disinfection system at the BPWWTF should it be determined to be in the best interest of NBC. Based upon the assumption that the assessment will result in the implementation of newer, lower cost technology, the project is estimated to result in \$205,500 annual net savings related to lower electricity use and fewer lamp replacements. Completion of this project is scheduled for FY 2022.

BPWWTF UV Disinfection Improvements								
		Savings		Increased		creased		
		Savings	Expense		Revenue			
Electricity	\$	(201,100)	\$	-	\$	-		
Chemicals		-		10,600		-		
Labor		(15,000)		-		-		
Total	\$	(216,100)	\$	10,600	\$	-		

IM Facilities

The IM Facilities Project (12400) is scheduled for completion in FY 2022. This project involves the construction of a new building that will be necessary if NBC is required by legislation to assume ownership of lateral sewers currently owned by local communities within the service area. The new building will include an administrative area, garage area and storage yard to house the existing IM staff and equipment. The additional operating expense associated with the new building is approximately \$97,288 annually. All project startup costs, such as staff and equipment relocation are included in the project cost.

IM Facilities									
		Savings	In	creased	Increased				
		Savings	E	xpense	Revenue				
Electricity	\$	-	\$	23,180	\$	-			
Natural Gas		-		39,072		-			
Water		-		3,000		-			
Maintenance		-		32,036		-			
Total	\$	-	\$	97,288	\$	-			

FPWWTF Maintenance Facilities

The FPWWTF New Maintenance Facilities Project (13200) consists of the design and construction of a new maintenance building and facilities for storage of equipment at the FPWWTF. While not critical to plant operations, it will improve efficiency because the existing maintenance building, built nearly 117 years ago, is small and outdated. This new facility has an estimated annual operating expense of \$63,000.

FPWWTF Maintenance Facilities													
	Savings			creased	Inc	reased							
		Savings	E	xpense	Revenue								
Electricity	\$	-	\$	20,000	\$	-							
Natural Gas		-		40,000		-							
Water		-		3,000		-							
Total	\$	-	\$	63,000	\$	-							

Johnston Sewer Improvements/Hartford Avenue

The Johnston Sewer Improvements/Hartford Avenue Project (30464) will extend the Hartford Avenue sewer approximately 5,400 feet to the area west of Route 295 to enable development within the Town of Johnston in conformance with the approved facilities plan. NBC anticipates that it will need to expend approximately \$10,000 every 5 years for ongoing maintenance of the collection system.

Johnston Sewer Improvements/Hartford Avenue												
		Savings	In	creased	In	creased						
	Savings	E	Expense	Revenue								
Maintenance	\$	-	\$	10,000	\$	-						
Total	\$	-	\$	10,000	\$	-						

Field's Point Drive Interceptor Improvements

The Field's Point Drive Interceptor Improvements Project (30465) is scheduled to be completed in FY 2019. The project consists of replacing a collapsed sewer pipe in one location and repairing broken pipe in several other locations. In other locations the pipe is cracked and will need to be lined. These measures will restore the sewer to its original capacity. The estimated operating expense is \$10,000 every 5 years for ongoing maintenance of the collection system.

Field's Point Drive Interceptor Improvements												
		Savings	In	creased	Increased							
		Savings	E	xpense	Revenue							
Maintenance	\$	-	\$	10,000	\$	-						
Total	\$	-	\$	10,000	\$	-						

Projects in Progress or Initiated but Not Completed in FY 2019-2023

BPWWTF O&M Support Facilities

The BPWWTF O&M Support Facilities Project (81500) includes the evaluation and construction of improvements to the Operations & Maintenance Support Facilities at the BPWWTF. The facilities are expected to operational in FY 2026 with an estimated annual operating expense of \$71,000.

BPWWTF O&M Support Facilities												
	Savings		In	creased	Increased							
	Ja	Savings		xpense	Revenue							
Electricity	\$	-	\$	20,000	\$	-						
Natural Gas		-		40,000		-						
Water		-		6,000		-						
Maintenance		-		5,000		-						
Total	\$	-	\$	71,000	\$	-						

CSO Phase III Facilities

No operating cost impacts related to the CSO Phase III Facilities are anticipated to occur until FY 2028. For planning purposes, however, the CIP identifies estimated annual operating expense for the first phase of the CSO Phase III A Facilities based upon pre-design estimates. These costs include electricity to pump flow from the Pawtucket tunnel pump station and provide dehumidification, natural gas for heat in the pump station, screening and grit disposal, biosolids, water, treatment chemicals, and maintenance. Additional labor costs are anticipated to operate the facilities bringing the total estimated operating cost up to \$1M annually. The start-up costs are included in the project. The operating expense of the remaining three phases will be determined once the design plans are available.

CSO Phase III Facilities													
Capital Project	Projected Year Facilities Online	Savings	Increased Expense	Increased Revenue									
Phase III CSO Facilities - Phase A													
Electricity	FY 2026	\$ -	\$ 646,950	\$-									
Natural Gas	FY 2026	-	64,240	-									
Screening & Grit	FY 2026	-	49,660	-									
Biosolids	FY 2026	-	194,866	-									
Water	FY 2026	-	968	-									
Hypochlorite	FY 2026	-	12,110	-									
Sodium Bisulfite	FY 2026	-	4,942	-									
Maintenance	FY 2026	-	29,033	-									
Personnel	FY 2026	-	9,811	-									
	Total	\$-	\$ 1,012,580	\$-									
Phase III CSO Facilities - Phase B	FY 2031	None	TBD	None									
Phase III CSO Facilities - Phase C	FY 2037	None	TBD	None									
Phase III CSO Facilities - Phase D	FY 2042	None	TBD	None									

CIP Debt Service Impact

In addition to operating cost impacts, the debt service related to financing the NBC's capital improvement program also impacts the operating budget. NBC's operating budget includes the principal and interest payments as well as a debt service coverage line item. NBC uses a long-term financial model to identify capital funding needs and sources and to project debt issuance. The debt service and user fee projections associated with financing the CIP are identified in the Long-Term Plan section of the Operating Budget. Traditionally NBC has financed the capital improvement program through the issuance of debt.

Funding Sources

NBC has four sources of capital funding as follows:

Funding Source	Description
Restricted Account	Transfers from Stabilization Account – Prior Year Debt Coverage
Grant and Project Reimbursement Account	State or federal grant funds, capital project reimbursements, energy efficiency incentives, and transfers from the Renewal and Replacement Fund
State Revolving Fund Loans through RIIB	Borrowings from the RIIB backed by NBC tax-exempt revenue bonds - traditionally subsidized at 1/3 of NBC's market rate
Revenue Bonds	NBC tax-exempt debt issuance

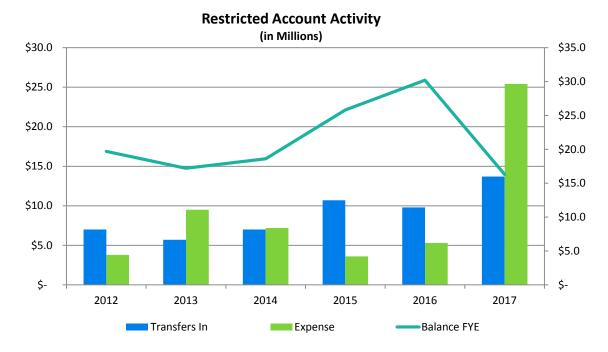
Restricted Account

The NBC is regulated by the Rhode Island Public Utilities Commission (PUC) and the PUC has permitted the use of prior year debt service coverage to finance "pay as you go" capital. NBC typically uses these funds for interceptor cleaning and inspection, studies, land and other projects that may not be eligible or reachable for funding from the RIIB. NBC may also fund initial project costs from the Restricted Account until SRF funds become available.

In FY 2017 NBC funded approximately \$25.2 million from the Restricted Account, which is significantly more than in prior years. This included costs of \$18.4 million for the remainder of the purchase and installation of the three Wind Energy Development (WED) Turbines. In addition, NBC funded \$3.9 million of the CSO Phase III Facilities design costs with restricted funds. Although NBC has borrowed funds through the RIIB to finance the CSO Phase III Facilities, RIDEM has deemed these costs not yet eligible for SRF funding since RIDEM has not approved the revised plan. NBC will continue to fund the CSO Phase III design costs with restricted funds until RIDEM approves the plan and will then request reimbursement from unspent SRF proceeds. A listing of the projects and amounts that were funded with restricted funds in FY 2017 is as follows:

FY 2017 Restricted Account Expenditures*											
Major Project		Amount									
WED Turbines	\$	18,419,254									
CSO Phase III Facilties		3,881,246									
Collection System Infrastructure		1,305,308									
WWTF Improvements		1,295,115									
Other		321,681									
Total	\$	25,222,604									
* Based on 11 months											

The projected restricted account balance available on July 1, 2017 is \$16.3 million. NBC estimates that the carry-forward transfer from FY 2017 will be \$12.6 million, bringing the restricted account balance available for capital projects in FY 2018 to \$28.9 million. This amount is in addition to the programmed funding of the FY 2018 Operating Capital. The following chart shows the transfers into the Restricted Account, Capital Projects expense and Fiscal Year End (FYE) Restricted Account balance by fiscal year.



State Revolving Fund Loans – RIIB

The NBC's least cost source of debt financing is through the RIIB. The RIIB provides subsidized loans to eligible borrowers with interest rates that are 1/3 off of the market rate. In some instances, these loans include an additional subsidy through a principal forgiveness component. Typically the NBC submits a loan application in April for a loan that will be executed in June of the next year. In order for a project to be eligible for SRF funding, the project must be listed in the application and on the RIDEM's Project Priority List. NBC does not directly receive the loan proceeds, rather the invoices are submitted to RIIB for payment. In order for a project cost to be eligible for payment, NBC must receive a Certificate of Approval (COA) from RIDEM.

NBC has unexpended proceeds from the 2015 Series B and 2016 Series A bonds. Actual cash draws have been below projection due to an outward shift in project schedules as well as the temporary ineligibility of CSO Phase III A design costs. The table below shows the SRF Expenditures in FY 2017.

FY 2017 SRF	Expe	nditures*				
Major Project	20	15 Series B	2016 Series B			
Water Quality Science Building	\$	2,572,296	\$	-		
BPWWTF Biogas Reuse		542,340		-		
CSO Phase II Facilities		1,272,878		-		
CSO Phase III Facilities		177,259		-		
Collection System Infrastructure		2,001,473		-		
WWTF Improvements		471,744		739,971		
Total	\$	7,037,989	\$	739,971		
* Based on 11 months						

Below is a chart that shows NBC's outstanding debt from the RIIB.

Bond Issue	Interest Rate*	tstanding as une 30, 2017	Final Maturity
1997 Series - \$8.150M	3.14473%	\$ 1,625,307	September 1, 2020
1999 Series - \$23.955M	3.03200%	6,320,000	September 1, 2021
2001 Series - \$57M	2.67100%	13,630,000	September 1, 2022
2002 Series - \$57M	1.07850%	20,332,834	September 1, 2023
2003 Series - \$40M	1.34900%	17,820,000	September 1, 2025
2004 Series B - \$40M	1.40400%	22,230,000	September 1, 2025
2005 Series B - \$30M	1.39700%	14,903,000	September 1, 2026
2006 Series A - \$30M	1.27000%	16,305,000	September 1, 2027
2007 Series B - \$25M	1.47500%	17,517,000	September 1, 2029
2009 Series A - \$55M	0.87700%	41,603,572	September 1, 2031
2010 Series A - \$2M	0.52200%	1,205,655	September 1, 2030
2010 Series B - \$20M	2.14300%	15,028,000	September 1, 2031
2011 Series A - \$30M	2.25900%	22,453,337	September 1, 2032
2012 Series A - \$25.75M	2.08800%	21,086,426	September 1, 2033
2013 Series B - \$25M	2.09200%	21,731,401	September 1, 2034
2014 Series A - \$45M	2.46700%	41,273,000	September 1, 2035
2015 Series B - \$41.7535M	2.54900%	41,241,430	September 1, 2045
2016 Series A - \$23.0M	1.96700%	 23,000,000	September 1, 2037
		\$ 359,305,962	

* RIIB loans have a 0.5% service fee

Revenue Bonds

Since the statewide demand for SRF loans exceeds the RIIB lending capacity, NBC issues revenue bonds to the extent that SRF funds are not available. NBC did not have any unspent proceeds in FY 2017. The table below shows NBC's outstanding revenue bonds.

Bond Issue	Interest Rate*	itstanding as une 30, 2017	Final Maturity
2008 Series A - \$66.0M	Variable	\$ 56,465,000	August 1, 2035
2013 Series A - \$71.48M	4.33291%	71,480,000	September 1, 2043
2013 Series C - \$34.97M	4.68715%	34,970,000	September 1, 2033
2014 Series B - \$39.82M Refunding	4.86125%	39,820,000	September 1, 2035
2015 Series A - \$40.085M Refunding	4.94207%	40,085,000	September 1, 2037
		\$ 242,820,000	

With respect to this year's CIP, a number of funding sources have been identified as part of the Long-Term Plan as follows:

Funding Source	Description
Restricted Account*	Transfers from Stabilization Account - Prior Year Debt Coverage
2015 Series B (SRF)	Unspent Proceeds from 2015 Series B
2016 Series A (SRF)	Unspent Proceeds from 2016 Series A
New SRF Revenue Bonds	New borrowings from the RIIB backed by NBC revenue bonds
New Revenue Bonds	New NBC tax-exempt revenue bond issues
* Includes Grant and Project Poimbursomer	t Assount

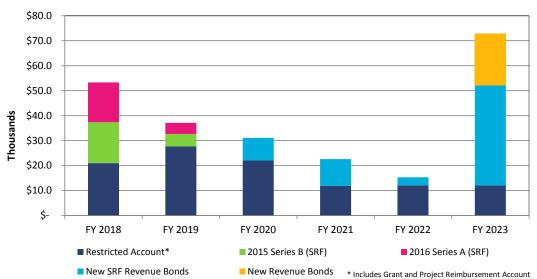
* Includes Grant and Project Reimbursement Account

In FY 2018, NBC plans to fund its capital improvement program with approximately \$21.0 million in restricted funds and \$32.3 million in unspent SRF proceeds. For presentation purposes, the projected \$1.5 million balance in the Grant and Project Reimbursement Account is grouped into the Restricted Account Balance. During the period of FY 2018-2023, the long-term model reflects the use of \$106.8 million in restricted funds or "pay-as-you-go" capital, \$41.7 million in unspent SRF proceeds, \$63.0 million in new borrowings through the RIIB, and \$20.8 million in revenue bonds. The long-term model does not include any new borrowings from RIIB during FY 2018-2019 or the issuance of any revenue bonds during fiscal years 2018 through 2022. The table below shows the projected sources of funds in fiscal years 2018-2023.

Sources of Funds (Thousands)	F	Y 2018	FY 2019		FY 2020		FY 2021		FY 2022		22 FY 2023		Total FY 2019-2023		Total FY 2018-2023	
Restricted Account*	\$	20,995	\$	27,684	\$	22,067	\$	11,922	\$	12,064	\$	12,085	\$	85,822	\$	106,817
2015 Series B (SRF)		16,369		4,967		-		-		-		-		4,967		21,337
2016 Series A (SRF)		15,958		4,445		-		-		-		-		4,445		20,403
New SRF Revenue Bonds		-		-		9,060		10,663		3,243		40,000		62,965		62,965
New Revenue Bonds		-		-		-		-		-		20,787		20,787		20,787
Total		53,322		37,097		31,126		22,584		15,307		72,872		178,986		232,309

* Includes Grant and Project Reimbursement Account

The actual timing and type of debt issuance will be determined based upon cash flows, market conditions, RIIB loan availability, and other factors. The graph below illustrates the projected sources of funds from FY 2018 through FY 2023. NBC does not plan on executing any new loans from RIIB until FY 2020 in anticipation of construction of the CSO Phase III A Facilities.



Sources of Funds

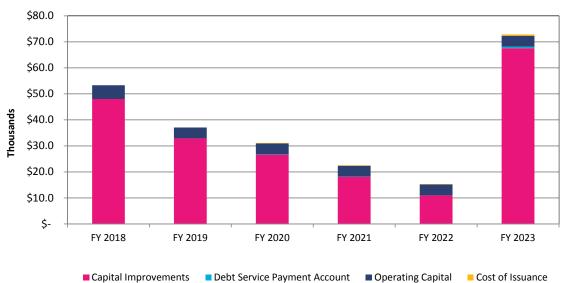
NBC must also take into consideration the appropriate uses of capital funds as part of the planning process. The following table lists the individual funding uses along with their descriptions. In addition to payments for capital projects, the table identifies operating capital expense and incremental increase to the debt service payment account. The cost of issuance expense is also shown and is financed from bond proceeds.

Funding Use	Description
Operating Capital	Annual Operating Capital Purchases
Capital Improvements	Projects identified in the Capital Improvement Program
Debt Service Payment Account Cost of Issuance	Incremental increase in monthly deposits due to debt issuance RIIB service fee, underwriting, bond counsel, financial advisory services, etc.

The following table shows that the largest use of capital funds is for Capital Improvements at 88% of the total uses for the FY 2018-2023 CIP window.

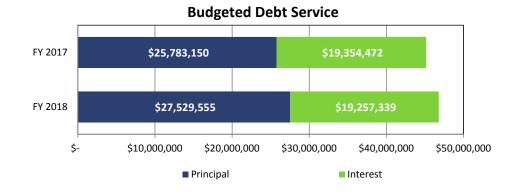
Uses of Funds (Thousands)	F	Y 2018	F	Y 2019	F	Y 2020	F	Y 2021	F	Y 2022	F	Y 2023	otal FY)19-2023	otal FY 18-2023
Operating Capital	\$	5,311	\$	4,200	\$	4,200	\$	4,200	\$	4,200	\$	4,200	\$ 21,000	\$ 26,311
Capital Improvements		48,011		32,897		26,645		18,071		10,942		67,564	156,119	204,131
Debt Service Payment Account		-		-		91		107		32		608	838	838
Cost of Issuance		-		-		191		207		132		500	1,030	1,030
Total		53,322		37,097		31,126		22,584		15,307		72,872	178,986	232,309

The chart below shows the uses of capital funds by fiscal year. Expenditures on capital improvements are \$48.0 million in FY 2018 and will decline in each of the four following fiscal years. FY 2023 shows higher programmed costs at \$67.6 million, of which NBC plans on spending the majority or \$62.7 million on CSO Phase III A Facilities construction costs.



Uses of Funds

Since the CIP is financed primarily through the issuance of long-term debt, the capital program's primary impact on the operating budget is through the payment of principal and interest. Budgeted debt service in FY 2018 is \$46.8 million, which is 3.7% higher than the prior year. The following table shows debt service expense in Fiscal Year 2018 compared to the prior year. The higher debt service reflects the debt service associated with NBC's most recent borrowings from the RIIB.

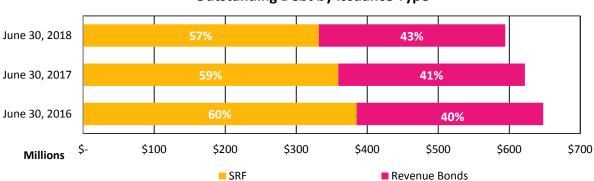


The table below shows the changes in outstanding debt at fiscal year-end for 2016, 2017 and 2018. The Additions/Principal Payments column reflects the net effect of principal payments and new SRF bond issuance. Because NBC does not plan on issuing any new debt until FY 2020, outstanding debt is projected to decrease 8% from \$647.7 million at June 30, 2016 to \$594.4 million at June 30, 2018.

Issuance	tanding Debt as June 30, 2016	Additions/ cipal Payments	standing Debt as f June 30, 2017	Ade	ditions/ Principal Payments	tstanding Debt f June 30, 2018
SRF Loans						
SRF Loans	\$ 385,089,111	\$ (25,783,150)	\$ 359,305,961	\$	(27,529,555)	\$ 331,776,406
Subtotal SRF	385,089,111	(25,783,150)	359,305,961		(27,529,555)	331,776,406
Revenue Bonds						
2008 Series A Refunding Bonds	56,465,000	-	56,465,000		-	56,465,000
2013 Series A	71,480,000	-	71,480,000		-	71,480,000
2013 Series C	34,970,000	-	34,970,000		-	34,970,000
2014 Series B Refunding Bonds	39,820,000	-	39,820,000		-	39,820,000
2015 Series A Refunding Bonds	40,085,000	-	40,085,000		-	40,085,000
Subtotal Revenue Bonds	242,820,000	-	242,820,000		-	242,820,000
Subtotal Bonds	\$ 627,909,111	\$ (25,783,150)	\$ 602,125,961	\$	(27,529,555)	\$ 574,596,406
Premiums						
2013 Series A	4,131,888	-	4,131,888		-	4,131,888
2013 Series C	2,274,637	-	2,274,637		-	2,274,637
2014 Series B Refunding Bonds	7,381,545	-	7,381,545		-	7,381,545
2015 Series A Refunding Bonds	5,996,114	-	5,996,114		-	5,996,114
Subtotal Premiums	\$ 19,784,184	\$ -	\$ 19,784,184	\$	-	\$ 19,784,184
Total Outstanding Debt	\$ 647,693,295	\$ (25,783,150)	\$ 621,910,145	\$	(27,529,555)	\$ 594,380,590

Outstanding Debt

The chart below shows the decrease in outstanding debt is related to the SRF borrowings since the NBC's revenue bonds have 30 year maturities and were structured to "wrap" around SRF loans. NBC anticipates that outstanding debt will continue to decline until construction of CSO Phase III A Facilities begins.

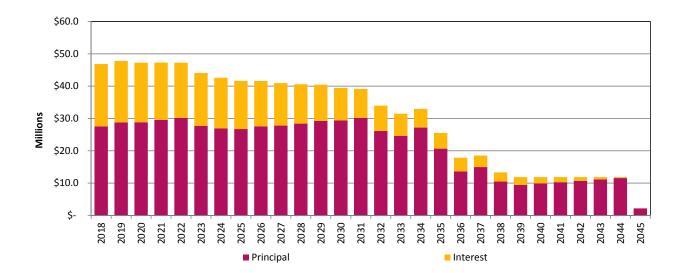


Outstanding Debt by Issuance Type

The following table shows debt service payments through maturity.

	Dest Servic	•••	ayinento ti		Sinnacante	7	
Fiscal Year	Debt		Principal		Interest	То	tal Payment
2018	\$ 854,112,617	\$	27,529,555	\$	19,325,165	\$	46,854,720
2019	807,257,897		28,801,972		19,011,195		47,813,167
2020	759,444,730		28,848,394		18,405,267		47,253,661
2021	712,191,069		29,564,498		17,751,697		47,316,195
2022	664,874,874		30,181,899		17,060,829		47,242,728
2023	617,632,146		27,725,747		16,354,696		44,080,443
2024	573,551,703		26,964,509		15,636,516		42,601,025
2025	530,950,678		26,741,562		14,873,236		41,614,798
2026	489,335,880		27,564,901		14,047,285		41,612,185
2027	447,723,694		27,797,035		13,127,895		40,924,930
2028	406,798,765		28,408,268		12,204,311		40,612,579
2029	366,186,185		29,273,863		11,176,253		40,450,117
2030	325,736,069		29,356,698		10,081,924		39,438,622
2031	286,297,447		30,212,923		8,939,929		39,152,852
2032	247,144,595		26,120,242		7,842,435		33,962,676
2033	213,181,918		24,647,493		6,827,764		31,475,257
2034	181,706,661		27,196,453		5,784,122		32,980,574
2035	148,726,087		20,685,448		4,837,774		25,523,223
2036	123,202,864		13,644,000		4,186,104		17,830,104
2037	105,372,760		14,988,000		3,535,274		18,523,274
2038	86,849,486		10,498,000		2,833,224		13,331,224
2039	73,518,262		9,508,000		2,377,495		11,885,495
2040	61,632,767		9,919,000		1,962,201		11,881,201
2041	49,751,566		10,311,000		1,569,886		11,880,886
2042	37,870,681		10,721,000		1,162,043		11,883,043
2043	25,987,638		11,142,000		738,108		11,880,108
2044	14,107,530		11,581,000		297,525		11,878,525
2045	2,229,005		2,192,500		36,505		2,229,005
٦	ſotal	\$	602,125,962	\$2	251,986,656	\$	854,112,618

Debt Service Payments through Maturity



Projected Revenue and Expense

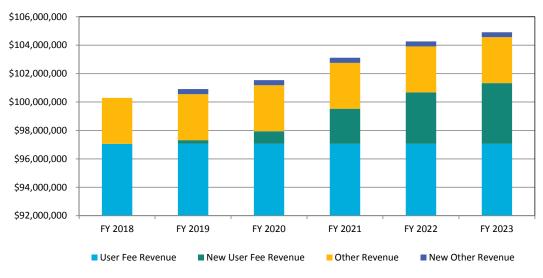
NBC has projected operating budget revenue and expense for FY 2018 – FY 2023 taking into consideration the capital program and a number of other assumptions. The FY 2018 base figures reflect the operating budget levels and the CIP impacts are incorporated into the base revenue and expense figures. NBC will continue to update and validate assumptions as part of the ongoing planning process each year.

Projected Revenue

User fees are the largest source of NBC's revenue. Over the six-year period user fee revenue is projected to increase 4.4% due to the CIP and rate increases. The table below shows projected incremental changes in revenue assuming that all budgeted FY 2018 impacts are included in the base figures. With respect to the CIP, collection system expansion projects are estimated to increase user fee revenue in FY 2019 and FY 2020. In addition, NBC projects user fee rate increases beginning in FY 2020 to demonstrate that rates will generate sufficient revenue to meet debt service and debt service coverage requirements during the three years subsequent to new debt issuance.

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
REVENUE						
Base User Fee Revenue	\$ 97,058,926	\$ 97,058,926	\$ 97,058,926	\$ 97,058,926	\$ 97,058,926	\$ 97,058,926
CIP New User Fee Revenue	-	257,355	497,355	497,355	497,355	497,355
Rate Increase Revenue	 -	-	390,349	1,970,339	3,121,319	3,773,374
Total User Fee Revenue	97,058,926	97,316,281	97,946,630	99,526,620	100,677,600	101,329,655
Base Other Revenue	3,233,285	3,233,285	3,233,285	3,233,285	3,233,285	3,233,285
CIP New REC Revenue	-	87,834	87,834	87,834	87,834	87,834
Solar PPA REC Revenue	 -	274,080	269,983	265,947	261,971	258,054
Total Other Revenue	3,233,285	3,595,199	3,591,102	3,587,065	3,583,089	3,579,173
Total Revenue	\$ 100,292,211	\$ 100,911,480	\$ 101,537,731	\$ 103,113,685	\$ 104,260,689	\$ 104,908,828

In addition, during the FY 2018 to FY 2023 period, Other Revenue is anticipated to increase as a result of additional REC revenue from two renewable energy programs including the Bucklin Point Biogas Reuse Project and a Solar Energy Power Purchase Agreement (PPA). Overall Other Revenue is projected to increase 10.7% over the six-year period.



Projected Operating Budget Revenue

Projected Expense

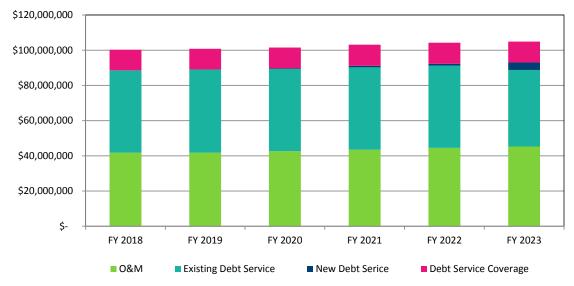
With respect to projected Operation and Maintenance (O&M) expense, a number of assumptions have been incorporated into the projections. First, NBC has inflated annual O&M at 2% per year. The incremental net impact of the CIP is anticipated to reduce O&M expense by \$357,310 in FY 2019, with additional changes in FY 2022 and FY 2023. NBC also incorporated savings resulting from the proposed Solar PPA.

NBC's largest expense is for debt service. For the purpose of modeling and rate increase projections, NBC is using projected interest expense on the \$56.5 million VRDOs at 2.5% including fees beginning in FY 2019. This is a lower rate than NBC has traditionally used for budgeting purposes; however, the average interest rate since inception (April 29, 2004) is 1.22% and the 20-year SIFMA tax-exempt Index has averaged 1.64%. NBC's model shows that NBC will need to access capital markets in FY 2020 to finance its CIP. Because debt service associated with some of NBC's earlier issues is maturing, the overall impact on debt service expense is relatively modest over the six-year period.

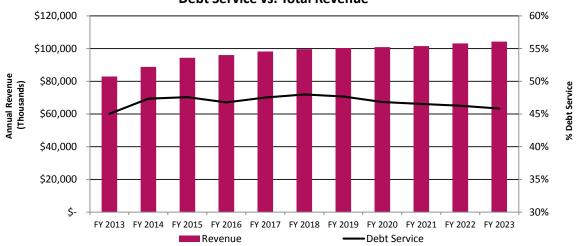
The table below shows that NBC will meet coverage requirements during the six-year period based on the assumptions as outlined. NBC will continue to update the projections as part of the ongoing planning process.

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
EXPENSE						
Base O&M Expense with CPI @ 2%	\$ 41,808,594	\$ 42,644,766	\$ 43,497,661	\$ 44,367,615	\$ 45,254,967	\$ 46,160,066
CIP Net Expense Impact	-	(357,310)	(357,310)	(357,310)	(197,022)	(362,522)
Solar PPA Expense Impact	 -	(498,768)	(504,860)	(511,026)	(517,267)	(523,585)
Total O&M	41,808,594	41,788,688	42,635,491	43,499,279	44,540,677	45,273,959
Existing Debt Service	46,786,894	47,813,167	47,253,661	47,316,195	47,242,728	44,080,443
VRDB Interest from 3.5% to 2.5%	-	(564,650)	(564,650)	(565,685)	(563,614)	(564,650)
New Debt Service	 -	-	432,780	941,015	1,096,895	4,192,103
Total Debt Service	46,786,894	47,248,517	47,121,791	47,691,525	47,776,009	47,707,895
Debt Service Coverage @ 25%	11,696,723	11,812,129	11,780,448	11,922,881	11,944,002	11,926,974
Total Expense	\$ 100,292,211	\$ 100,849,334	\$ 101,537,731	\$ 103,113,685	\$ 104,260,689	\$ 104,908,828
Net Income (Loss)	\$ (0)	\$ 62,146	\$ 0	\$ 0	\$ 0	\$ (0)
Coverage	1.25	1.25	1.25	1.25	1.25	1.25

Projected Operating Budget Expense



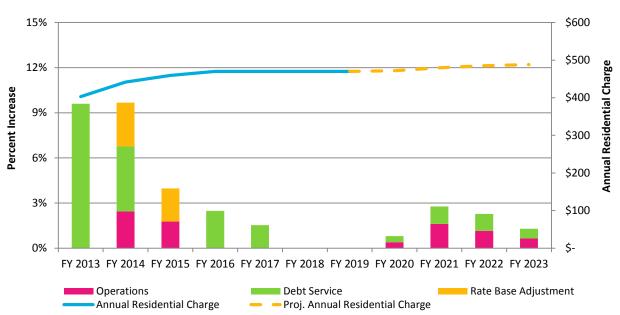
The chart below shows how debt service as a percent of total revenue is projected to decrease from approximately 48% of total revenue in FY 2018 to 46% of total revenue in FY 2023. This is the result of the outward shift in the construction costs of the CSO Phase III A Facilities. All debt service projections are based on a number of assumptions including the cash flow estimates outlined in the CIP.



Debt Service vs. Total Revenue

Sewer User Fee Rate Projections

The following chart shows the actual and projected rate increases along with the annual residential charge for FY 2013- FY 2023. Based on projections, it is anticipated that current rates are sufficient to support NBC's operations, debt service and debt service coverage through FY 2019. In FY 2020 rate relief will be required to meet projected higher O&M and debt service costs.



Actual and Projected Rate Increases and Annual Residential Charge

The NBC's average annual residential user charge is projected to increase from \$470 in FY 2018 to \$488 in FY 2023. The largest projected rate increase over the five-year period is in FY 2021 at 1.61%. This is significantly

lower than what was projected last year and is the result of the outward shift in the schedule of the CSO Phase III A Facilities. The new schedule defers NBC's borrowing needs and also affords NBC an opportunity to reduce outstanding debt in the interim. These impacts will change, however, if NBC must begin construction of the CSO Phase III A Facilities earlier than what is programmed in the CIP, there are significant changes in other capital, operation and maintenance costs, the CIP impacts are different than projected, or the Solar PPA is not executed or varies from projections. The impacts may also change if there are changes in the rate base or other factors out of NBC's control including the rate for RECs, short-term interest rates, wind, etc.

Even with the projected rate increases, NBC's sewer rates remain competitive. As can be seen in the following table, when NBC's 2016 rate is calculated based on consumption of 120 HCF, it is approximately 9.6% below the national average of \$702 for major U.S. Cities. Survey results for the State of Rhode Island are shown in the Budget Summary section of this document.

2016 Annual Residen	tial	Sewer	Charges for Major U.S.	Citi	es
Seattle, WA	\$	1,472	New Orleans, LA	\$	656
San Francisco, CA		1,360	Providence, RI		642
Honolulu, HI		1,264	Houston, TX		620
Portland, ME		984	San Diego, CA		616
Flint, MI		931	Dallas, TX		534
MWRA Service Area		929	Columbus, OH		531
Austin, TX		897	Los Angeles, CA		510
Boston, MA		814	Fort Worth, TX		497
Washington, DC		753	Saint Paul, MN		480
New York, NY		727	Newark, NJ		457
Detroit, MI		692	Philadelphia, PA		452
Jacksonville, FL		687	San Jose, CA		427
Saint Louis, MO		664	San Antonio, TX		375
Indianapolis, IN		656	Milwaukee, WI		245

Capital Improvement Program

The Capital Improvement Program

The Narragansett Bay Commission's (NBC) Capital Improvement Program (CIP) is a planning document which identifies programmed capital investments necessary to comply with current and future regulatory requirements, take advantage of technological advancements, ensure the integrity of NBC's infrastructure and achieve operational efficiencies. The projects, schedules and costs that are included in the CIP have been developed through a planning process that involves NBC's Engineering and Construction staff and also incorporates needs identified through NBC's asset management program. These capital improvements include construction of new facilities, rehabilitation and replacement of existing infrastructure as well as energy efficiency and sustainability projects. The CIP shows programmed expenditures for the current Fiscal Year (FY) 2018 as well as the following five-year period of FY 2019-2023, which is referred to in this document as the "window". Structuring the CIP this way also enables NBC's program to be easily incorporated into the capital budget of the State of Rhode Island.

Capital Improvement Program Overview

This year's CIP identifies a total of 40 projects that are either in progress, to be initiated, or to be completed during FY 2018-2023. The estimated costs for this year's CIP window are \$156.1 million, with additional expenditures of \$48.0 million in FY 2018 for a total of \$204.1 million. The majority or 65% of the expenditures are related to the third and final phase of the Combined Sewer Overflow (CSO) Abatement Facilities. Other projects in the CIP account for the remaining 35% and reflect the continued investment in NBC's wastewater treatment and collection system infrastructure.

Category	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY	2019-2023
Administrative	\$ 2,009	\$ 1,149	\$ 824	\$ 612	\$ 462	\$ 500	\$	3,547
Land	2,041	50	-	-	2,000	-		2,050
A/E Professional	13,919	13,178	11,230	8,690	4,478	12,021		49,597
Construction	25,832	15,454	13,042	7,289	3,092	54,773		93,651
Contingency	2,464	1,469	1,175	1,260	750	150		4,804
Other	1,746	1,596	374	220	160	120		2,470
Total	\$48,011	\$ 32,897	\$ 26,645	\$18,071	\$10,942	\$67,564	\$	156,119

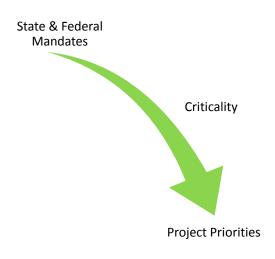
FY 2018-2023 CIP Costs

(In thousands)

The CIP document reflects all phases of a construction project, including planning and design as a single project. In addition, for planning purposes, projects that are substantially complete with only retainage and/or "punch-list" items remaining are considered complete and are not carried in the CIP summary or detailed project listing; however, these projects are discussed in the completed projects section of the CIP that begins on page 98. The CIP projects are also identified by one of four priority classifications to rank them in terms of priority. The CIP includes additional information regarding changes in the CIP from the prior year, new projects and the projected operating budget impact of each project. Lastly, information relating to the funding of the CIP as well as a discussion of the projected rate impacts associated with the CIP is provided.

Capital Improvement Program Development

NBC's comprehensive capital improvement planning process takes into consideration the project's relationship to the strategic plan, program priorities, the permitting process, project readiness, scheduling and other factors. The CIP drives NBC's long-term financing requirements, and therefore the particulars of each project are an essential component of NBC's financial plan.



NBC's Project Managers begin the annual CIP process with the development of detailed justifications for each capital project including project scope, basis for the cost estimate and key factors impacting costs and schedules. The Project Managers also explain modifications from the prior year's CIP and provide the overall project timeline. A timeline with all of the detailed project schedules can be found on page 112. The CIP Review Committee reviews the proposed capital projects including the assignment of priorities and schedules. Projects approved for inclusion in the CIP are subsequently analyzed to assess major program changes, overall capital funding needs and the strength of the project's connection to the objectives in NBC's Strategic Plan, as well as financing and operating cost impacts.

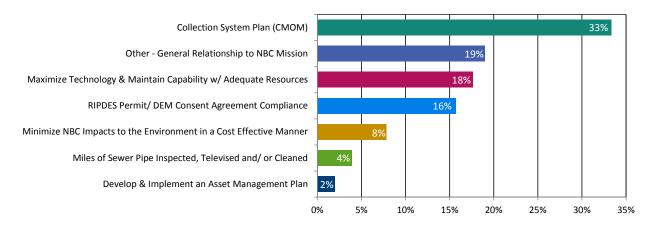
Capital Improvement Program Assumptions

The costs and schedules included in this year's CIP reflect NBC's best estimates and are based on a number of assumptions as follows:

- Costs and cash flows are based on planning or design estimates and/or bids once available.
- The majority of construction projects include a 12% contingency based on the original construction cost estimate, which reflects recent industry experience. The contingency may be modified based upon the bids. Cost estimates for new design and construction projects include a 7% allowance for NBC staff salary and fringe associated with project management, based on historical data.
- Financing costs and debt service associated with the CIP are not included in the CIP expenditures or the project cash flows. Financing costs are capitalized and amortized over the length of the debt payment schedule and debt service is included as an expense in the annual operating budget.
- The CIP does not include the acquisition or replacement of certain assets that are identified in NBC's annual operating budget and are outlined in the five-year Operating Capital Plan.

Capital Projects by Strategic Objective

NBC's Strategic Plan ensures NBC's ability to meet water quality objectives set forth by regulatory requirements through achieving short-term and long-term objectives at a reasonable cost. As part of the CIP development process, Project Managers identify the one or more strategic goals that a project will address. The following chart below illustrates the percentage of capital projects in this year's CIP aligned with each Strategic Objective.



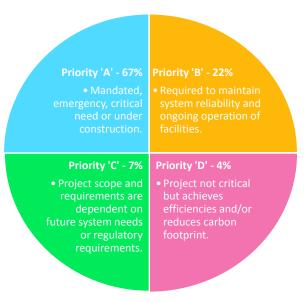
Percentage of Capital Projects by Strategic Objective

Of the 40 CIP projects, 33% are related to NBC's Collection System Plan strategic objective. These include interceptor rehabilitation and construction projects. In addition, 19% of the projects in the CIP are aligned with the General Relationship to NBC Mission strategic objective and 18% of the projects are aligned with the Maximize Technology & Maintain Capability with Adequate Resources strategic objective. The remaining projects are aligned with the RIPDES Permit and RIDEM Consent Agreements strategic objective.

Project Priorities

As part of the CIP program development, the criticality of each project is assessed and a priority ranking is assigned based on that assessment. Projects with a ranking of "A", represent a critical need and are either mandated an emergency or currently under construction. Approximately 67% of the projects identified in the window are prioritized with an "A" ranking and total \$104.5 million.

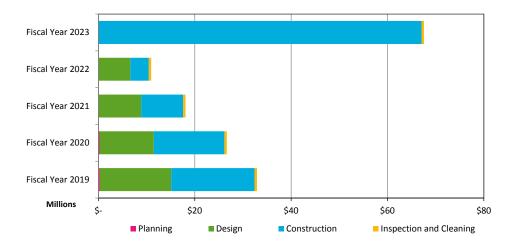
In addition, 22% of projects are identified with a "B" ranking and total \$34.2 million, which includes projects that are required to maintain system reliability and ongoing operations of NBC's facilities. Projects with a rank of "C" are dependent on future system needs or regulatory requirements and represent 7% or \$11.4 million. The remaining 4% are ranked as "D" and include projects that are not critical but achieve efficiencies and/or reduce NBC's carbon footprint totaling \$6.0 million.



*Percentage calculated on project cost

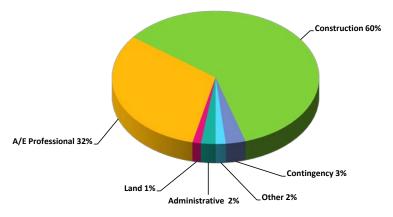
Capital Expenditure by Phase

NBC's construction projects are generally comprised of three phases including planning, design, and construction. Planning consists of tasks such as feasibility studies and determination of the technology to be implemented. The design phase includes the development of plans and specifications, the acquisition of easements and permits. During the construction phase, facility improvements and infrastructure are constructed. The CIP also includes some programmed capital projects which are not broken down into phases, such as the inspection, cleaning and repair of NBC's interceptors, or other one-time special studies. As is evident in the chart below, the majority of the programmed expenditures during the five-year CIP window relate to the construction phase at 71% or \$111.5 million.



Capital Expenditure by Cost Category

For planning purposes, the project costs are shown by categories including the Administrative category, which includes NBC's project management costs as well as police, legal and advertising expense. The Land category includes costs for easements, as well as land acquisition. The Architectural/Engineering (A/E) Professional cost category includes costs for professional planning or design services. The Construction cost category reflects contractor and outside construction management costs. Lastly, the Contingency cost category includes an allowance for construction cost increases based upon industry experience related to construction cost factors. As shown in the chart below, construction costs represent \$93.6 million, or approximately 60% of the total costs within the FY 2019-2023 window. A/E Professional services represent approximately \$49.6 million or 32% of the costs during this same period.



CIP Costs by Type of Activity

Capital Expenditures by Functional Area

For planning purposes, NBC also groups capital projects into five functional areas, according to the scope and tasks involved with the capital project. The functional areas are described below.

Functional Area	Project Examples
Wastewater Treatment Facility (WWTF)	Blower Improvements, Biogas Reuse, UV Disinfection and WWTF Improvements
Infrastructure Management (IM)	Energy Sustainability, Easement Restoration and System Improvements
CSO Phase III Facilities	CSO Phase III A ,B, C, and D
Interceptor Inspection and Cleaning (IIC)	Remote Television Inspection and Grit/Debris Removal and Disposal
Interceptor Repair and Construction (IRC)	Interceptor Expansion, Improvements, Lining and Manhole Rehabilitation

The following table shows how the CIP costs have shifted by functional area on a year-to-year basis. The most significant change is the 63% or \$168.8 million decrease in the CSO Phase III A Facilities compared to last year's CIP. This is the result of both the outward shift in the construction schedule and a reduction in the estimated construction cost. Programmed expense for Wastewater Treatment Facility Improvements increased 51% from the prior year and Interceptor Restoration and Construction increased 16% from the prior year due to a number of new projects. Overall, programmed expenditures are 50% or \$157.6 million less in the current CIP window compared to last year.

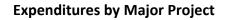
Functional Area (In thousands)	or Year CIP 2018-2022)	ent Year CIP 2019-2023)	% Change
Wastewater Treatment Facility	\$ 19,173	\$ 28,890	51%
Infrastructure Management	3,633	2,087	(43%)
CSO Phase III A Facilities	269,748	100,994	(63%)
Interceptor Inspection and Cleaning	2,500	2,500	0%
Interceptor Restoration and Construction	18,708	21,648	16%
Total	\$ 313,762	\$ 156,119	(50%)

Significant Capital Improvement Projects

The most significant project included in this year's CIP is the CSO Phase III A Facilities which accounts for \$101.0 million or 64.7% of the CIP's programmed costs. Expenditures on this project are projected to increase significantly in FY 2023 as NBC progresses from the design phase to construction. Other projects account for the remaining 35.3% of the CIP programmed costs. The following table and graph show the programmed expenditures for the CSO Phase III Facilities and other projects included in the current CIP window.

	Expenditures by Major Project													
Project (in Thousands)	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		otal Costs 2019 - 2023	% of Five Year Window					
CSO Phase III Facilities	\$14,727	\$12,965	\$11,119	\$ 8,164	\$ 6,076	\$62,670	\$	100,994	64.7%					
WWTF Improvements	17,462	4,708	10,745	7,677	2,866	2,894		28,890	18.5%					
Interceptor Restoration & Construction	12,327	13,392	3,756	1,500	1,500	1,500		21,648	13.9%					
Other	3,496	1,832	1,025	730	500	500		4,587	2.9%					
Total	\$48,011	\$32,897	\$26,645	\$18,071	\$ 10,942	\$67,564	\$	156,119	100.0%					

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Projects related to WWTF Improvements at Field's Point include Phase II of the Blower Improvements at \$9.3 million; Final Clarifier Improvements at \$4.1 million; Maintenance Facilities at \$6.4 million, and the IM Facilities at \$6.6 million. Improvements at Bucklin Point include Biogas Reuse at \$8.3 million, UV Disinfection Improvements at \$7.3 million and O&M Support Facilities at \$15.2 million. In addition, this year NBC is programming \$500 thousand annually for improvements at the facilities as they are identified through asset management and inspection.

NBC's CIP also includes funding for various NBC's Interceptor Restoration and Construction Projects. Specifically, the Johnston Sewer Improvements/Greenville at a cost of \$9.3 million and Johnston Sewer Improvements/Hartford at a cost of \$2.4 million which involve the extension of interceptors in the NBC's district to locations that are not presently served. NBC has also programmed improvements to the Moshassuck Valley Interceptor at \$7.0 million, the Louisquisset Pike Interceptor at \$4.0 million and the Providence River Siphon at \$6.6 million.

Additional projects include the AVI and BVI Interceptor Easement Restorations at a total cost of \$2.2 million, System-wide RIPDES flow monitoring at \$848 thousand, South Providence Interceptor Cleaning at \$662 thousand, along with green projects and studies.

Year-over-Year Difference in the	Year-over-Year Difference in the Capital Improvement Program by Major Project												
	FY 2018	FY 2019	FY 2020	F۱	(2021	F١	Y 2022						
WWTF Improvements	\$ 12,220	\$ 2, 534	\$ 4,721	\$	3,217	\$	1,592						
Interceptor Restoration & Construction	15	11,496	2,256		-		-						
Other	994	659	(138)		(64)		-						
Total Change Non-CSO Projects	\$ 13,229	\$ 14,689	\$ 6,839	\$	3,153	\$	1,592						
Percent Change in Non-CSO Projects	66.0%	280.1%	78.7%	,)	46.7%		48.6%						

The table below shows increased programmed expenditures for non-CSO projects over the prior year.

CSO Phase III Facilities (Project 308)

In accordance with the terms and schedule set forth in the Consent Agreement between NBC and RIDEM, this CIP includes NBC's design and construction of the third and final phase of the federally mandated CSO Abatement Program. Required as part of a Consent Agreement between NBC and RIDEM, this project represents NBC's largest capital investment in this year's CIP.

NBC initiated the reevaluation of the Phase III Facilities in January 2014 with a focus on affordability issues, an evaluation of the significant improvements in water quality achieved through the first two phases, use of an integrated approach and an investigation of "green" technologies to determine if the third phase facilities, as originally developed, remained the most cost effective approach.



Photo: Alignment of CSO Phase III

Several alternatives were developed through this reevaluation process and a series of Stakeholder meetings were held to evaluate the alternatives and financial impacts. The affordability analysis based upon EPA criteria was thoroughly conducted to evaluate ratepayer impact on the various communities and census tracts in NBC's service area. The Commission selected an alternative on April 28, 2015 which has a pre-design cost estimate of \$795.2 million in 2018 dollars. The reevaluation report was submitted to RIDEM in July 2015 and RIDEM provided comments to NBC in March 2016. NBC is incorporating RIDEM's comments into a revised conceptual design report which will be submitted to RIDEM for approval. RIDEM has also required NBC to submit an updated Environmental Assessment (EA) for Phase III. The draft EA was submitted to RIDEM in February 2017. NBC's Consent Agreement must also be renegotiated based upon the approved plan.

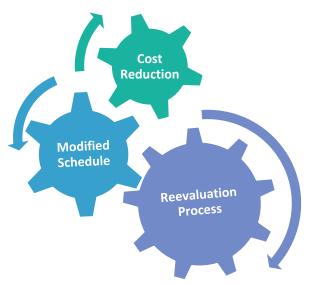
As a result of the reevaluation process, the Phase III CSO Program was subdivided into four phases to be completed by 2041. The

program also incorporates Green Stormwater Infrastructure (GSI) facilities to be constructed in each of the four phases to reduce stormwater inflow to the existing CSO system by implementing stormwater infiltration projects, with expenditures of \$10.0 million on GSI in each phase.

The total pre-design estimate, which includes "other" costs (NBC labor, police, etc.), for the four phases of the CSO Phase III Facilities is \$795.2 million in 2018 dollars, with expenditures of approximately \$14.7 million in FY 2018 and \$101.0 in the five year period of FY 2019-2023. NBC has commenced preliminary design of the Phase III A Facilities. Construction of this first phase is expected to begin in 2022.

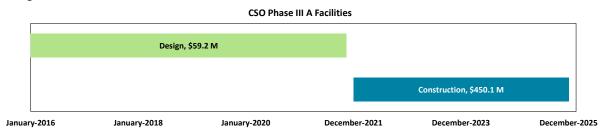
Subsequent to the completion of the reevaluation report and development of the revised plan, NBC further evaluated this alternative to determine if the facilities could be modified to further reduce the cost of the Phase III program. A description of the optimized facilities to be constructed in each of the four phases, as well as estimated costs and schedules are on the following page. The estimated construction costs will be updated as the design proceeds.

CSO Phase III Facilities Optimization Process



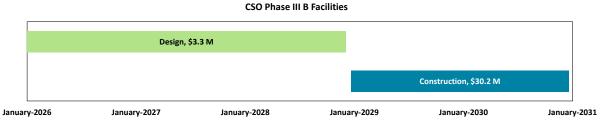
Phase III A

This Phase includes the design and construction of a deep rock tunnel in Pawtucket approximately 13,000 feet in length from the Bucklin Point WWTF in East Providence to Pawtucket, a Pump Station to convey flow to the Bucklin Point WWTF, drop shafts and consolidation conduits. The pre-design estimated cost for design and construction of these facilities in 2018 dollars is \$509.3 million. Construction of this phase is scheduled to begin in FY 2022.



Phase III B

This phase includes the design and construction of two interceptors at High and Cross Streets which will be approximately 4,200 feet in length and one interceptor at Middle Street approximately 2,000 feet in length. The pre-design estimated cost for design and construction of this phase in 2018 dollars is \$33.5 million. Construction of this phase is scheduled to begin in FY 2029.



Phase III C

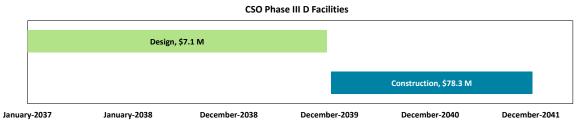
This phase involves the design and construction of a stub tunnel to convey flow from OF-220 to the Pawtucket tunnel at a pre-design estimated cost in 2018 dollars of \$166.9 million. Construction of this phase is scheduled to begin in FY 2035.



		Design, \$13.1 M				
					Construction, \$153.8 N	1
January-2031	December-2031	December-2032	December-2033	December-2	034 December-2035	December-2036

Phase III D

This phase involves the design and construction of an interceptor that will store flow from OF 039 and OF 056 during a storm and subsequently release the flow into the system as capacity allows and sewer separation for OF 035. The pre-design estimated cost in 2018 dollars is \$85.4 million. Construction of this phase is scheduled to begin in FY 2040.



Climate Change and Sustainability

To achieve NBC's environmental performance goals of minimizing environmental impact, NBC has programmed a number of projects in the CIP. The Green House Gas Study involves quantifying NBC's overall carbon footprint by measuring the gas emissions from the wastewater collection and treatment process. The results of this study will enable NBC to quickly respond to new requirements related to emissions as they are enacted. In addition, NBC plans to maximize energy efficiencies and renewable resources through the Energy Sustainability Program which involves the identification and implementation of conservation methods, improved efficiency options, and the use of sustainable renewable energy resources.



Photo: Field's Point Wind Turbine

Bucklin Point Biogas Reuse



Photo: Bucklin Point Digester

This year's CIP also includes the Bucklin Point Biogas Reuse Project (12000) which includes the installation of a biogas cogeneration system that will burn the biogas generated from the anaerobic biosolids digestion process and simultaneously generate electricity and heat for reuse in the treatment facility.

This process will reduce NBC's dependency on fossil fuel and generate approximately 4.8 million kWh of electricity annually which will offset the annual electricity expense at the Bucklin Point WWTF. Additionally, this project will generate revenue through the sale of Renewable Energy Credits or RECs. The estimated construction cost is \$8.3 million and this "green" project is eligible

for \$512 thousand in principal forgiveness administered through the Rhode Island Infrastructure Bank (RIIB). In addition, it is anticipated that NBC will receive approximately \$740 thousand in grants and incentives for the project. Overall, the project is 16% complete and the facilities are expected to be on-line in June 2018.

Wastewater Treatment Facility Improvements

This year's CIP includes \$62.9 million in programmed funding for projects related to NBC's wastewater treatment facilities. The major projects at Field's Point include Phase II of the Blower Improvements (10908) which involves the replacement of the aeration blowers to ensure a reliable air source for the aeration treatment process and Final Clarifier Improvements (13000) which includes the replacement of internal drives, scraper mechanisms and launder covers. Construction of the new Maintenance Facilities (13200) addresses the need for new maintenance and equipment storage facilities.



Photo: Ultraviolet Disinfection System

The major projects at Bucklin Point include the evaluation of the

Ultraviolet Disinfection system to determine if the system should be replaced, upgraded or substituted with an alternate technology. The existing piping and controls in the Digester Building will be replaced as part of Digester and Miscellaneous Improvements Project (81400). Also included in the CIP is construction of the Operations and Maintenance Support Facilities (81500) which will include a new operations building, storage and maintenance facilities at this location. The Biogas Reuse Project (12000) mentioned above is also at Bucklin Point.

On a system-wide basis, this year NBC made a policy decision to program \$500 thousand annually for wastewater treatment facility improvements which will ensure resources are available to address the ongoing improvements required to ensure the integrity of the treatment facilities. Funds are also programmed for new IM Facilities (12400) that may be necessary if NBC is required to assume ownership of the lateral sewers currently owned by local communities in NBC's service area.

Project Number	Project Name	Total Est Project	
10908	FPWWTF Blower Improvements Phase II	\$	9,284
12000	BPWWTF Biogas Reuse		8,272
12400	IM Facilities		6,607
12900	FPWWTF Operations and Lab Building Reuse		760
13000	FPWWTF Final Clarifier Improvements		4,137
132000	FPWWTF Maintenance Facilities		6,448
20000	WWTF Improvements		2,888
20100	FY 17 WWTF Improvements		675
81000	BPWWTF UV Disinfection Improvements		7,289
81400	BPWWTF Digester & Miscellaneous Improvements		1,354
81500	BPWWTF O&M Support Facilities		15,189
	Total	\$	62,903

Collection System Infrastructure

This CIP includes several collection system infrastructure projects totaling \$37.9 million. The two largest projects include the design and construction of improvements to expand NBC's service area along Greenville Avenue (30460) and Hartford Avenue (30464) in the Town of Johnston. Other interceptor projects include the replacement of a portion of the Moshassuck Valley Interceptor (30444) and increasing the capacity of the Louisquisset Pike Interceptor (30421).



Photo: NBC's staff utilizing a digger

In addition, projects such as the Field's Point Drive Interceptor Improvements (30465) and Improvements to Interceptors FY 2017 (30463) address various deficiencies throughout NBC's service area and include sewer lining, point repairs and replacements, outfall pipes and manhole rehabilitation.

Lastly, NBC is committed to maintaining its infrastructure and collection system by programming an allocation of \$500 thousand for interceptor inspection and cleaning and \$1.5 million for interceptor restoration and construction annually in years that do not have specific projects identified.

Completed and New Capital Projects

Completed Projects

In FY 2017, NBC completed eight capital projects at a cost of \$44.2 million. One of the largest projects, the 36,790 square foot Water Quality Science Building (11900), was completed at a cost of \$21.9 million. Staff moved into the new state-of-the-art laboratory and environmental analysis facility, in July 2016. Another large project, the Wind Energy Development Turbines (50500) was also completed in FY 2017 at a cost of \$19.0 million. Two turbines were purchased in July 2016 and a third turbine was purchased in September 2016. The three 1.5 MW wind turbines convert wind energy into electricity at an off-site location which is net-metered. The following table shows the completed projects and estimated costs.

Project Number	Project Name	Cost (In thousands)		
11900	Water Quality Science Building	\$ 2	21,906	
13100	NBC Energy Efficiency Upgrades		865	
81300	BPWWTF Flood Protection		423	
1140400	Evaluate NBC Facilities for Climate Resiliency		5	
50500	Wind Energy Development Turbines	1	19,000	
30473	Lockbridge and Valley Street Inspection & Cleaning		534	
30474	BVI Inspection & Cleaning		80	
30462	NBC East Providence Interceptor Improvements		1,381	
	Total	\$ 4	44,194	

New Projects

This year's CIP includes eleven new capital projects totaling \$39.0 million. Six of these projects relate to improvements at NBC's Field's Point and Bucklin Point WWTF's. The other new projects are related to NBC's RIPDES permit and the collection system. The new projects and their estimated costs are summarized in the following table and are discussed below.

Project Number	Project Name		ed Cost usands)
13200	FPWWTF New Maintenance Facilities	\$	6,448
20000	WWTF Improvements		2,888
20100	FY 2017 WWTF Improvements		675
81000	BPWWTF UV Disinfection		7,289
81400	BPWWTF Digester Building Improvements		1,354
81500	BPWWTF O&M Support Facilities		15,189
40400	FPWWTF Facilities Plan Update		255
40500	NBC System-wide RIPDES Flow Monitoring		848
30475	Providence-South Providence IIC		662
30464	Johnston Sewer Improvements/Hartford Avenue		2,429
30465	Field's Point Drive Interceptor Improvements		937
	Estimated Total	\$	38,974

With respect to the new WWTF projects, Project 13200 includes design and construction of a new maintenance building and support facilities for equipment storage at Field's Point. Project 20000 reflects funding of a "placeholder" for potential facility improvements at both of NBC's WWTFs. Project 20100 includes improvements to the hypochlorite tank pad and chlorination building, rehabilitation of the aeration tank wall, and the installation of an energy recovery system within the grit building at Field's Point. The three remaining WWTF projects are for improvements at the Bucklin Point WWTF and include Project 81000 to address the Ultraviolet Disinfection system, Project 81400 to replace the digester piping and Project 81500 to evaluate and construct operations, maintenance, and equipment storage facilities at Bucklin Point.

Funding has been included for two new projects related to NBC's RIPDES Permits. Project 40400 is the development of a Facilities Plan Update at Field's Point to determine the maximum Nitrogen and BOD loads that can be accepted at the facility while ensuring compliance with the permit. Project 40500 involves condition assessments of existing flow monitoring equipment located throughout NBC's collection system in order to ensure consistent and accurate monitoring of flow conditions and measurements in accordance with the RIPDES permit.

The CIP also contains three new projects related to the NBC's collection system infrastructure. These projects include the inspection and cleaning of interceptors as part of Project 30475, an extension of NBC's interceptor along Hartford Avenue in the Town of Johnston under Project 30464, and interceptor restoration along Field's Point Drive, adjacent to the FPWWTF as part of Project 30465.

Financial Impact

NBC recognizes the importance of planning for capital expenditures and is committed to minimizing ratepayer impact through an assessment of both operating costs and financing impacts. NBC has incorporated an expanded analysis and presentation of these impacts in the CIP. The project specific information is included in the following discussion rather than on the individual project sheets.

FY 2018 Operating Budget Impacts

Certain capital improvements will directly impact the operating budget either through increased revenue, increased expense, or cost savings. NBC has identified these projects that have a significant impact on NBC's operating budget. The following table describes the impact categories and should be used to interpret the figures in the detailed operating impact tables in this section of the CIP.

Impact	Description	Refection in Tables
Savings	A reduction in operating costs resulting from no longer operating facilities, reduced energy consumption, and/or the purchase of electricity	Shown as a reduction in Operating Costs
Increased Expense	An increase in operating costs resulting from new facilities becoming operational	Shown as an increase in Operating Costs
Increased Revenue	An increase in revenue through new user charges, incentives, and/or the sale of Renewable Energy Credits	Shown as an increase in Operating Revenue or Non-Operating Revenue

NBC has identified the operating and expense impacts related to ten capital projects that are anticipated to be completed during FY 2018. As is shown below, eight of the projects scheduled for completion in FY 2018 are inspections, restorations, or studies and are not anticipated to have any operating impacts or start-up costs. Two projects, the BPWWTF Biogas Reuse, and the Johnston Sewer Improvements/Greenville Avenue are projected to have operating impacts with the combined impact of these projects resulting in a \$31,318 increase in revenue and \$47,483 in savings.

Estimated Operating Impact of Projects to Be Completed in Fiscal Year 2018							
Capital Project	9	Savings		ncreased Expense	Increased Revenue		
FPWWTF- Operations and Lab Building Reuse	\$	-	\$	-	\$-		
Upper Bay Dissolved Oxygen Evaluation		-		-	-		
Greenhouse Gas Study		-		-	-		
NBC Interceptor Easement Restoration, AVI		-		-	-		
Municipal Lateral Sewer Acquisition Impact		-		-	-		
FPWWTF Facilities Plan Update		-		-	-		
Providence - South Providence Interceptor Inspection Cleaning		-		-	-		
Johnston Sewer Improvements/Hartford Avenue		-		-	-		
BPWWTF Biogas Reuse		(47,483)		-	7,985		
Johnston Sewer Improvements/Greenville Avenue		-		-	23,333		
Total	\$	(47,483)	\$	-	\$ 31,318		

* Start-up costs carried in project cost

BPWWTF – Biogas Reuse

The BPWWTF – Biogas Reuse Project (12000) consists of the installation of a combined heat and power system that will burn the biogas generated from the anaerobic biosolids digestion process. This system is projected to generate approximately 4.8 million KWh of electricity annually to be used on-site. This program has secondary benefits such as a reduction in greenhouse gas emissions associated with electricity production. This project will generate an estimated purchased electricity savings of \$569,793 and REC revenue of \$95,819 annually. The figures in the FY 2018 column of the table reflect one month of operation. NBC estimates annual maintenance cost of \$165,000 in future years. All start-up costs are included in the project.

BPWWTF Biogas Reuse							
	FY 2018		ŀ	Annual			
Increased Revenue							
Sale of Renewable Energy Credits	\$	7,985	\$	95,819			
Revenue Impact	\$ 7,985		\$	95,819			
Savings							
Electricity		(47,483)	((569,793)			
Increased Expense							
Maintenance Contract		-		165,000			
Net O&M Impact		(47,483)	\$	(404,793)			

Johnston Sewer Improvements/Greenville Avenue

The Johnston Sewer Improvements/Greenville Avenue Project (30460) includes the design and construction of improvements to expand sewers in the Town of Johnston. This project involves the installation of approximately 6,750 linear foot of 12" pipe along Greenville Avenue in Johnston. The revenue generated as a result of new customers connecting to NBC's system is estimated at \$23,333 in FY 2018 and \$280,688 on an annual basis.

Johnston Sewer Improvements/Greenville Avenue								
	FY 2018 Annual							
Increased Revenue								
User Fees		23,333	\$	280,688				
Revenue Impact	\$	23,333	\$	280,688				

FY 2019-2023 Revenue and Expense Impacts

The table below summarizes the projected impact of new capital projects scheduled to become operational in FY 2019-2023. Projects that involve inspection, studies, cleaning and rehabilitation generally do not have operating cost impacts and are excluded from this list. The estimated impact as a result of these projects is increased revenue of \$240 thousand, savings of \$3.1 million and increased expense of \$3.1 million. Projects with revenue, savings or expense impacts are discussed in the following section.

CIP Impacts FY 2019-2023	Fiscal Year	Savings	Increased Expense	Increased Revenue
Field's Point Drive Interceptor Improvements	2019	\$-	\$ 10,000	\$-
Louisquisset Pike Interceptor Replacement FPWWTF - Blower Improvements Phase II	2020 2020	- (2,864,264)	10,000 2,864,264	240,000
BPWWTF UV Disinfection Improvements IM Facilities	2022 2022	(216,100) -	10,600 97,288	-
FPWWTF Maintenance Facilities Johnston Sewer Improvements/Hartford Avenue	2023 2023	-	63,000 10,000	-

Field's Point Drive Interceptor Improvements

The Field's Point Drive Interceptor Improvements Project (30465) is scheduled to be completed in FY 2019. The project consists of replacing a collapsed sewer pipe in one location and repairing broken pipe in several other locations. In other locations the pipe is cracked and will need to be lined. These measures will restore the sewer to its original capacity. The estimated operating expense is \$10,000 every 5 years for ongoing maintenance of the collection system.

Field's Point Drive Interceptor Improvements								
		Savings	In	creased	Inc	creased		
		Savings	E	xpense	Re	evenue		
Maintenance	\$	-	\$	10,000	\$	-		
Total	\$	-	\$	10,000	\$	-		

Louisquisset Pike Interceptor Replacement

Louisquisset Pike Interceptor Replacement Project (30421) is scheduled to be completed in FY 2020. The project consists of the construction of a larger replacement interceptor in the northern section of the Town of Lincoln to accommodate the additional flow. Preliminary projections indicate that the flow will generate additional sewer user fee revenue of \$240,000 annually. There are no start-up costs associated with the construction of this interceptor. Operating costs are \$10,000 every five years for maintenance.

Louisquisset Pike Interceptor									
		Savings	Increased			Increased			
		Savings	Expense		Revenue				
User Fees	\$	-	\$	-	\$	240,000			
Maintenance		-		10,000		-			
Total	\$	-	\$	10,000	\$	240,000			

FPWWTF Blower Improvements Phase II

The FPWWTF Blower Improvements Phase II Project (10908) involves the replacement of the Field's Point aeration blowers to provide a reliable air source for the aeration treatment process. The estimated ongoing operation expense for the blowers is \$2,864,264. Since these blowers are replacing existing equipment, the projected savings is \$2,864,264 and the net impact is zero. The new blowers are scheduled to become operational in FY 2020 and the start-up costs are carried in the project.

FPWWTF Blower Improvements Phase II									
	Savings	Increased	In	creased					
	Savings	Expense	Re	evenue					
Electricity	\$ (2,853,764)	\$ 2,853,764	\$	-					
Water	(500)	500		-					
Maintenance	(10,000)	10,000		-					
Total	\$ (2,864,264)	\$ 2,864,264	\$	-					

BPWWTF UV Disinfection Improvements

The BPWWTF UV Disinfection Improvements Project (81000) involves the evaluation, design, and construction of a new UV disinfection system at the BPWWTF should it be determined to be in the best interest of NBC. Based upon the assumption that the assessment will result in the implementation of newer, lower cost technology, the project is estimated to result in \$205,500 annual net savings related to lower electricity use and fewer lamp replacements. Completion of this project is scheduled for FY 2022.

BPWWTF UV Disinfection Improvements								
		Savings	In	creased	Inc	creased		
		ournigo	Expense		Revenue			
Electricity	\$	(201,100)	\$	-	\$	-		
Chemicals		-		10,600		-		
Labor		(15,000)		-		-		
Total	\$	(216,100)	\$	10,600	\$	-		

IM Facilities

The IM Facilities Project (12400) is scheduled for completion in FY 2022. This project involves the construction of a new building that will be necessary if NBC is required by legislation to assume ownership of lateral sewers currently owned by local communities within the service area. The new building will include an administrative area, garage area and storage yard to house the existing IM staff and equipment. The additional operating expense associated with the new building is approximately \$97,288 annually. All project startup costs, such as staff and equipment relocation are included in the project cost.

IM Facilities									
		Savings	In	creased	Inc	reased			
		Savings	E	xpense	Revenue				
Electricity	\$	-	\$	23,180	\$	-			
Natural Gas		-		39,072		-			
Water		-		3,000		-			
Maintenance		-		32,036		-			
Total	\$	-	\$	97,288	\$	-			

FPWWTF Maintenance Facilities

The FPWWTF Maintenance Facilities Project (13200) consists of the design and construction of a new maintenance building and facilities for storage of equipment at the FPWWTF. While not critical to plant operations it will improve efficiency because the existing maintenance building, built nearly 117 years ago, is small and outdated. This new facility has an estimated annual operating expense of \$63,000.

FPWWTF Maintenance Facilities									
		Savings		creased xpense		reased venue			
Electricity	\$	-	\$	20,000	\$	-			
Natural Gas		-		40,000		-			
Water		-		3,000		-			
Total	\$	-	\$	63,000	\$	-			

Johnston Sewer Improvements/Hartford Avenue

The Johnston Sewer Improvements/Hartford Avenue Project (30464) will extend the Hartford Avenue sewer approximately 5,400 feet to the area west of Route 295 to enable development within the Town of Johnston in conformance with the approved facilities plan. NBC anticipates that it will need to expend approximately \$10,000 every 5 years for ongoing maintenance of the collection system.

Johnston Sewer Improvements/Hartford Avenue									
		Savings	In	creased	Increased				
		Savings	E	xpense	R	evenue			
Maintenance	\$	-	\$	10,000	\$	-			
Total	\$	-	\$	10,000	\$	-			

Projects in Progress or Initiated but Not Completed in FY 2019-2023

BPWWTF O&M Support Facilities

The BPWWTF O&M Support Facilities Project (81500) includes the evaluation and construction of improvements to the Operations & Maintenance Support Facilities at the BPWWTF. The facilities are expected to be operational in FY 2026 with an estimated annual operating expense of \$71,000.

BPWWTF O&M Support Facilities									
	Savings			creased xpense		creased evenue			
Electricity	\$	-	\$	20,000	\$	-			
Natural Gas		-		40,000		-			
Water		-		6,000		-			
Maintenance		-		5,000		-			
Total	\$	-	\$	71,000	\$	-			

CSO Phase III Facilities

No operating cost impacts related to the CSO Phase III Facilities are anticipated to occur until FY 2028. For planning purposes, however, the CIP identifies estimated annual operating expense for the first phase of the CSO Phase III A Facilities based upon pre-design estimates. These costs include electricity to pump flow from the Pawtucket tunnel pump station and provide dehumidification, natural gas for heat in the pump station, screening and grit disposal, biosolids, water, treatment chemicals, and maintenance. Additional labor costs are anticipated to operate the facilities bringing the total estimated operating cost up to \$1.0M annually. The start-up costs are included in the project. The operating expense of the remaining three phases will be determined once the design plans are available.

CSO Phase III Facilities							
Capital Project	Projected Year Facilities Online	Savings		Increased Expense	Increased Revenue		
Phase III CSO Facilities - Phase A							
Electricity	FY 2026	\$	-	\$ 646,950	\$		
Natural Gas	FY 2026		-	64,240			
Screening & Grit	FY 2026		-	49,660			
Biosolids	FY 2026		-	194,866			
Water	FY 2026		-	968			
Hypochlorite	FY 2026		-	12,110			
Sodium Bisulfite	FY 2026		-	4,942			
Maintenance	FY 2026		-	29,033			
Personnel	FY 2026		-	9,811			
	Total	\$		\$ 1,012,580	\$		
Phase III CSO Facilities - Phase B	FY 2031	None		TBD	None		
Phase III CSO Facilities - Phase C	FY 2037	None		TBD	None		
Phase III CSO Facilities - Phase D	FY 2042	None		TBD	None		

Project Financing

In addition to operating cost impacts, the debt service related to the financing the NBC's capital improvement program also impacts the operating budget. NBC's operating budget includes principal and interest payments as well as a debt service coverage line item. NBC uses a long-term financial model to identify capital funding needs and sources and to project debt issuance. The debt service and user fee projections associated with financing the CIP are identified in the Long-Term Plan section of the Operating Budget. Traditionally, NBC has financed the capital improvement program through the issuance of debt.

CIP Funding Sources

NBC has four sources of capital funding as follows:

Funding Source	Description
Restricted Account	Transfers from Stabilization Account – Prior Year Debt Coverage
Grant and Project Reimbursement Account	State or federal grant funds, capital project reimbursements, energy efficiency incentives, and transfers from the Renewal and Replacement Fund
State Revolving Fund Loans through RIIB	Borrowings from the RIIB backed by NBC tax-exempt revenue bonds - traditionally subsidized at 1/3 of NBC's market rate
Revenue Bonds	NBC tax-exempt debt issuance

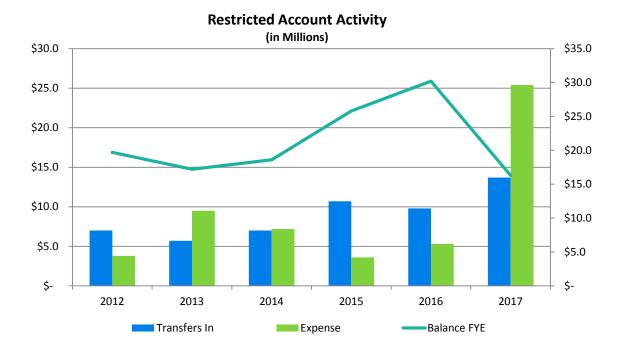
Restricted Account

The NBC is regulated by the Rhode Island Public Utilities Commission (PUC) and the PUC has permitted the use of prior year debt service coverage to finance "pay as you go" capital. NBC typically programs these funds for interceptor cleaning and inspection, studies, land and other projects that may not be eligible or reachable for funding from the RIIB. NBC may also fund initial project costs from the Restricted Account until SRF funds become available.

In FY 2017 NBC funded approximately \$25.2 million from the Restricted Account, which is significantly more than in prior years. This included costs of \$18.4 million for the remainder of the purchase and installation of the three Wind Energy Development (WED) Turbines. In addition, NBC funded \$3.9 million of the CSO Phase III Facilities design costs with restricted funds. Although NBC has borrowed funds through the RIIB to finance the CSO Phase III Facilities, RIDEM has deemed these costs not yet eligible for SRF funding since RIDEM has not approved the revised plan. NBC will continue to fund the CSO Phase III design costs with restricted funds until RIDEM approves the plan and will then request reimbursement from unspent SRF proceeds. A listing of the projects and amounts that were funded with restricted funds in FY 2017 is as follows:

FY 2017 Restricted Account Expenditures*							
Major Project		Amount					
WED Turbines	\$	18,419,254					
CSO Phase III Facilties		3,881,246					
Collection System Infrastructure		1,305,308					
WWTF Improvements		1,295,115					
Other		321,681					
Total	\$	25,222,604					
* Based on 11 months							

The projected restricted account balance available on July 1, 2017 is \$16.3 million. NBC estimates that the carry-forward transfer from FY 2017 will be \$12.6 million, bringing the restricted account balance available for capital projects in FY 2018 to \$28.9 million. This amount is in addition to the programmed funding of the FY 2018 Operating Capital. The following chart shows the transfers into the Restricted Account, Capital Projects expense and Fiscal Year End (FYE) Restricted Account balance by fiscal year.



State Revolving Fund Loans – RIIB

The NBC's least cost source of debt financing is through the RIIB. The RIIB provides subsidized loans to eligible borrowers with interest rates that are 1/3 off of the market rate. In some instances, these loans include an additional subsidy through a principal forgiveness component. Typically the NBC submits a loan application in April for a loan that will be executed in June of the next year. In order for a project to be eligible for SRF funding, the project must be listed in the application and on the RIDEM's Project Priority List. NBC does not directly receive the loan proceeds, rather the invoices are submitted to RIIB for payment. In order for a project cost to be eligible for payment, NBC must receive a Certificate of Approval (COA) from RIDEM.

NBC has unexpended proceeds from the 2015 Series B and 2016 Series A bonds. Actual cash draws have been below projection due to an outward shift in project schedules as well as the temporary ineligibility of CSO Phase III A design costs. The table below shows the SRF Expenditures in FY 2017.

FY 2017 SRF Expenditures*										
Major Project	20	15 Series B	20	16 Series B						
Water Quality Science Building	\$	2,572,296	\$	-						
BPWWTF Biogas Reuse		542,340		-						
CSO Phase II Facilities		1,272,878		-						
CSO Phase III Facilities		177,259		-						
Collection System Infrastructure		2,001,473		-						
WWTF Improvements		471,744		739,971						
Total	\$	7,037,989	\$	739,971						
* based on 11 months										

Below is a chart that shows NBC's outstanding debt from the RIIB.

	RIIB SRF Loans	•	
Bond Issue	Interest Rate*	outstanding	Final Maturity
1997 Series - \$8.150M	3.14473%	\$ 2,129,247	September 1, 2020
1999 Series - \$23.955M	3.03200%	8,839,999	September 1, 2021
2001 Series - \$57M	2.67100%	16,280,000	September 1, 2022
2002 Series - \$57M	1.07850%	23,421,360	September 1, 2023
2003 Series - \$40M	1.34900%	19,849,000	September 1, 2025
2004 Series B - \$40M	1.40400%	25,125,000	September 1, 2025
2005 Series B - \$30M	1.39700%	16,402,000	September 1, 2026
2006 Series A - \$30M	1.27000%	17,781,000	September 1, 2027
2007 Series B - \$25M	1.47500%	18,798,000	September 1, 2029
2009 Series A - \$55M	0.87700%	43,301,677	September 1, 2031
2010 Series A - \$2M	0.52200%	1,280,371	September 1, 2030
2010 Series B - \$20M	2.41300%	15,890,000	September 1, 2031
2011 Series A - \$30M	2.25900%	23,629,263	September 1, 2032
2012 Series A - \$25.75M	2.08800%	22,175,818	September 1, 2033
2013 Series B - \$25M	2.09200%	22,801,946	September 1, 2034
2014 Series A - \$45M	2.46700%	43,143,000	September 1, 2035
2015 Series B - \$41.7535M	2.54900%	41,241,430	September 1, 2045
2016 Series A - \$23.0M	1.96700%	23,000,000	September 1, 2037
		\$ 385,089,111	

* RIIB loans have a 0.5% service fee

Revenue Bonds

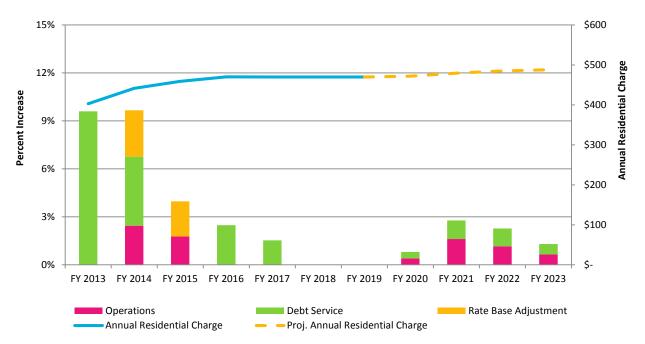
Because the statewide demand for SRF loans exceeds the RIIB lending capacity, NBC issues revenue bonds to the extent that SRF funds are not available. NBC did not have any unspent proceeds in FY 2017. The table below shows NBC's outstanding revenue bonds.

	Revenue Bond	ls		
Bond Issue	Interest Rate	0	utstanding	Final Maturity
2008 Series A - \$66.0M	Variable	\$	56,465,000	August 1, 2035
2013 Series A - \$71.48M	4.33291%		71,480,000	September 1, 2043
2013 Series C - \$34.97M	4.68715%		34,970,000	September 1, 2033
2014 Series B - \$39.82M Refunding	4.86125%		39,820,000	September 1, 2035
2015 Series A - \$40.085M Refunding	4.94207%		40,085,000	September 1, 2037
		\$	242,820,000	

Impact of CIP Financing

Primarily as a result of the modified schedule for the CSO Phase III Facilities, no additional debt financing is anticipated to be needed until FY 2020. In fiscal years 2018 through 2019 NBC will use existing loan proceeds and restricted funds to finance the CIP. More detailed information regarding capital funding sources and uses is included in the Long-Term Plan section of the FY 2018 Operating Budget.

The following chart shows the actual and projected rate increases along with the annual residential charge for FY 2013- FY 2023. Based on projections, it is anticipated that current rates are sufficient to support NBC's operations, debt service and debt service coverage through FY 2019. In FY 2020 rate relief will be required to meet projected higher O&M and debt service costs.



Actual and Projected Rate Increases and Annual Residential Charge

Capital Project Summary by Fiscal Year

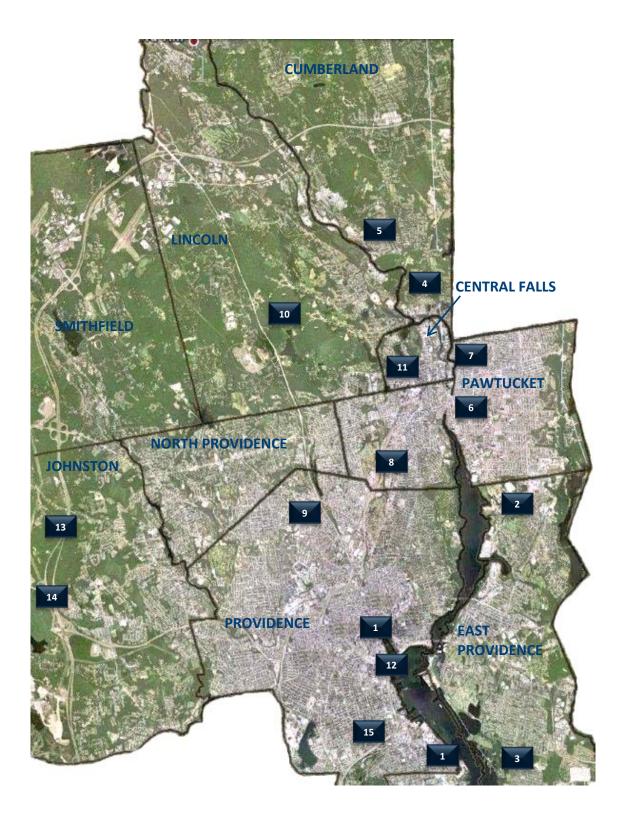
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30475Providence - South Providence Interceptor Inspection Cleaning SubtotalB2134492135002,500500Interceptor Restoration & Construction30400CInterceptor Restoration and ConstructionB4,5001,50030421Louisquisset Pike Interceptor ImprovementsC-2793,765-30444Moshassuck Valley InterceptorB491336,511-30457Providence River SiphonB362896,101-30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500-			-			-	2 5 0 0	500	0.054
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Anterceptor Restoration & Construction30400CInterceptor Restoration and ConstructionB4,5001,50030421Louisquisset Pike Interceptor ImprovementsC-2793,765-30444Moshassuck Valley InterceptorB491336,511-30457Providence River SiphonB362896,101-30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500	30475		U				- 2.500		662 3,713
30400CInterceptor Restoration and ConstructionB4,5001,50030421Louisquisset Pike Interceptor ImprovementsC-2793,765-30444Moshassuck Valley InterceptorB491336,511-30457Providence River SiphonB362896,101-30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500			abtota		215	500	2,500	500	5,715
30421Louisquisset Pike Interceptor ImprovementsC-2793,765-30444Moshassuck Valley InterceptorB491336,511-30457Providence River SiphonB362896,101-30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500									
30444Moshassuck Valley InterceptorB491336,511-30457Providence River SiphonB362896,101-30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500		•						1,500	6,000
30457Providence River SiphonB362896,101-30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500								-	4,044
30460Johnston Sewer Improvements/Greenville AvenueA1,3048,02230463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500								-	7,035
30463Improvements to Interceptors FY 2017A2451,31511-30464Johnston Sewer Improvements/Hartford AvenueB172,41230465Field's Point Drive Interceptor ImprovementsB-177760-Subtotal2,41912,32721,6481,500		·						-	6,553
30464 Johnston Sewer Improvements/Hartford Avenue B 17 2,412 - - 30465 Field's Point Drive Interceptor Improvements B - 177 760 - Subtotal 2,419 12,327 21,648 1,500								-	9,325
30465 Field's Point Drive Interceptor Improvements B - 177 760 - Subtotal 2,419 12,327 21,648 1,500								-	1,571
Subtotal 2,419 12,327 21,648 1,500								-	2,429
	30465							-	937
		S	Subtotal		2,419	12,327	21,648	1,500	37,894
Total Capital Improvement Program \$ 15,610 \$ 48,011 \$ 156,119 \$ 686,819 \$		Total Capital Improvement Program		Ś	15.610	\$ 48.011	\$ 156.119	\$ 686,819	\$ 906,559

Priority	Description
Α	Mandated, emergency, critical need or under construction.
В	Required to maintain system reliability and ongoing operation of facilities.
С	Project scope and requirements are dependent on futures system needs or regulatory requirements.
D	Project not critical but achieves efficiencies and/or reduces carbon footprint.

Capital Improvement Program Project Locations

The capital projects identified in this year's CIP are shown on the map on the following page. The map highlights 15 project locations as identified below. Some projects are System-Wide and noted as SW.

legend Ke	y Project Number	Project Name
Legena Ke		vater Treatment Facility Improvements
1	10908	FPWWTF Blower Improvements Phase II
2	12000	BPWWTF - Biogas Reuse
1	12400	New IM Facilities
1	12900	FPWWTF- Operations and Lab Building Reuse
1	13000	FPWWTF Final Clarifier Improvements
1	13200	FPWWTF New Maintenance Facilities
1	20100	FY 2017 WWTF Improvements
2	81000	BPWWTF UV Disinfection
2	81400	BPWWTF Digester Pipe and Miscellaneous Improvements
2	81500	BPWWTF O&M Support Facilities
		Infrastructure Management
3	1100000	Site Specific Study
3	1140100	River Model Development
3	1140200	Receiving Water Compliance Study
1, 2	1140300	Green House Gas Study
SW	1140500	NBC Energy Sustainability
4	30438	NBC Interceptor Easement Restoration - AVI
SW	30500	NBC Interceptor Easements Restoration - Various Locations
5	30501	NBC Interceptor Easements Restoration - BVI
SW	30700	NBC System-wide Facilities Planning
1, 2	40100	NBC Facility Electrical Improvements
1	40101	FPWWTF Facility Electrical Improvements
SW	40200	NBC System-Wide Inflow Reduction
SW	40300	Municipal Lateral Sewer Acquisition Impact
1	40400	FPWWTF Facilities Plan Update-P
SW	40500	NBC System-wide RIPDES Flow Monitoring
_		Phase III CSO Facilities
6	30800	CSO Phase III A Facilities
7	30810	CSO Phase III B Facilities
8	30820	CSO Phase III C Facilities
9	30830	CSO Phase III D Facilities
4 5		tion & Cleaning and Restoration and Construction
15	30475	Providence-South Providence Interceptor Inspection Cleaning
10	30421	Louisquisset Pike Interceptor
11	30444	Moshassuck Valley Interceptor
12	30457	Providence River Siphon
13	30460	Johnston Sewer Improvements
SW	30463	Improvements to Interceptors FY 2017
14	30464	Johnston Sewer Improvements-Hartford
1	30465	Field's Point Drive Interceptor Improvements



Task Name		_	2020		2022	202
	Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2
Wastewater Treatment Facility						
Improvements						
10908 - FPWWTF Blower Improvements			07/1/9			
Design						
Bid/Award Process						
Construction			5/1/20			
12000 - BPWWTF Biogas Reuse		5/16/19				
Design						
Did/Award Process Construction		5/16/19				
12400 - New IM Facilities	D11/17	•		7/1/21		
Design	0/1/17	2/1/19				
Bid/Award Process	3/1	3/1/19				
Construction		7/1/19		7/1/21		
12900 - Operations and Lab Building Reuse	6/1/18					
BIG/AWAIG Process						
	81/1/9					
13000 - FPWWIF Final Clarifier Improvements						
Design Bid/Award Process						
Construction		1/1/10				
22200 EDWATE Now Maintanance Eacilities				4/1/24		
Design		12/31/18				
	1/2/19	3/1/19				
Construction		5/1/19		4/1/21		
20	8/1/18	,		•		
Bid/Award Process						
Construction	8/1/18					
81000 - BPWWTF UV Disinfection				10/1/21	-	
Design		4/1/19				
Bid/Award Process		8/1/19				
Construction		10/1/19		10/1/21	-	
81400 - BPWWTF Digester Pipe and Misc.		2/2/19				
Improvements						
Bid/Award Process	7					
Construction		6LIZIZ				
81500 - BPWWTF O&M Support Facilities	91/1/9	_	00/06/6			
Design	01116		6/15/20		6/1/22	
Bid/Award Process			•		8/1/22	
					11/1/22	
Infrastructure Management						
	6/1/18					
	6/1/18					
D 30500 - Interceptor Easements Restoration,	21/ C	11/119				
	117	11/18				
Construction		11/1/19				

Task Name	17 2018 Otr 3 Otr 4 Otr 1 Otr 2 Otr 3 Otr 4 (2019 Otr 1 Otr 2 Otr 3 Otr 4	2020 2021 2022 2022 2022 2022 2022 2022	2 202 Otr 3 Otr 4 Otr 1 Otr 2
Infrastructure Management (continued)				
30501 - Interceptor Easements Restoration, BVI	10/1/18		·	
Design	4/1/18			
Bid/Award Process				
Construction	10/1/18	0220		
30/00 - NBC System-wide Facilites Planning	2/1/18	8/1/19		
40100 - NBC Facility Electrical Improvements	5/1/18	5/1/19		
Planning	5/1/18	5/1/19		
40101 - FPWWTF Facility Electrical Improvements		12/1/18		
		12/1/18		
40200 - NBC Systemwide Inflow Reduction				
Design Bid/Aurard Proces	01116	2		
Construction		5	/1/20	
40300 - Municipal Sewer Acquisition Impact	4/1/18			
Planning	4/1/18			
40400P - FPWWTF Facilities Plan Update - P	10/30/17			
Planning	10/30/17			
40500 - NBC System-wide RIPDES Flow Monitoring	9/30/18			
Phase III CSO Facilities			·	
30800 - CSO Phase III A Facilities				
Design			12/30/21	
Bid/Award Process				5/22
Construction			77/1//	
Intercentor Inspection & Cleaning				
Interceptor Inspection/Cleaning	11/30/17			
Interceptor Restoration & Construction		:		
30421 - Louisquisett Pike Interceptor Improvements		11/	11/1/19	
Design				
Bid/Award Process	3/1/18			
Construction	6/1/18	11		
30444 - MOSRASSUCK VAIREY INTERCEPTOR	21/1/2			
Bid/Award Process	9/15/17			
Construction	11/1/17	ľ	12/1/19	
30457 - Providence River Siphon		2/1/19		
Planning				
Design	12/1/1			
	1/1/18 3/15/18	01111		
	01110			
30460- Jonnston Sewer Improvements	Q1/117			
	4/1/48			
20	D	12/2/18		
	123/17	2		
		12/2/18		
20464 - Johnston Sewer Improvements / Hartford	10/31/17			
	6/30/17			
Construction	10/31/17	2440		
30465 - Fields Point Urive Interceptor Improvements	5/17 4/1/18			
Construction		5/1/19		
	•	•	-	-

CIP

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NBC FY 2018 BUDGET

10908 FPWWTF Blower Improvements Phase II

Project Manager: Rich Bernier, P.E. Contractor(s): Hart Engineering, Corp. Field's Point (Providence, RI) Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	February-15	April-16	14 Months	\$682
Construction	October-16	May-20	42 Months	9,284
Total Project	February-15	May-20	63 Months	\$9,966



This project involves the replacement of the Field's Point aeration blowers to ensure a reliable air source for the aeration treatment process.

Photo: Aeration tanks at Field's Point

CIP Window	Pre	e FY 18	FY 18	FY 19 FY 20			FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	1,547	\$ 5,246	\$ 2,448	\$	43	\$ -	\$ -	\$ -	\$	-	\$ 9,284

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	FY 22	l	FY 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-	-		-		-	-
Other		-		-		-		-	-	-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 18		FY 18	FY 19	F	Y 20	F	Y 21	F	Y 22	FY 23	Pos	t FY 23	Т	otal
Administrative	\$ 83	L \$	\$-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	81
Land	-		-	-		-		-		-	-		-		-
A/E Professional	582	2	-	-		-		-		-	-		-		582
Other	19)	-	-		-		-		-	-		-		19
Total	\$ 682	2 \$	\$-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	682

Projected Expenditures - Construction

Cost Category	Pre	e FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	48	\$ 65	\$ 15	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 128
A/E Professional		125	260	60	-	-	-	-		-	445
Construction		1,349	4,851	1,585	43	-	-	-		-	7,828
Contingency		-	-	783	-	-	-	-		-	783
Other		25	70	5	-	-	-	-		-	100
Total	\$	1,547	\$ 5,246	\$ 2,448	\$ 43	\$ -	\$ -	\$ -	\$	-	\$ 9,284

BPWWTF Biogas Reuse

Project Manager: Rich Bernier, P.E. Contractor(s): Daniel O'Connell's Sons Location: Bucklin Point WWTF (East Providence, RI) Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	June-07	December-09	30 Months	\$47
Design	April-10	June-14	50 Months	473
Construction	May-14	May-19	60 Months	8,272
Total Project	June-07	May-19	143 Months	\$8,792



This project is to install a biogas cogeneration, or combined heat and power system, to burn the biogas generated within the biosolids anaerobic digesters at the Bucklin Point WWTF as a fuel to generate electricity and heat for reuse in the treatment facility. The system is projected to generate approximately 4.8 million kWh of electricity annually.

Photo: Bucklin Point Digester and Heat Exchanger Building

CIP Window	Pr	e FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Summary	\$	2,265	\$ 5,958	\$ 49	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 8,272

Projected Expenditures - Planning

Cost Category	Pre F	Y 18	I	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post	t FY 23	Total
Administrative	\$	22	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 22
A/E Professional		25		-	-	-	-	-	-		-	25
Other		-		-	-	-	-	-	-		-	-
Total	\$	47	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 47

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F	Y 18	F	Y 19	F١	<i>(</i> 20	F	Y 21	F	Y 22	F	FY 23	Post	t FY 23	Г	otal
Administrative	\$	123	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	123
Land		-		-		-		-		-		-		-		-		-
A/E Professional		323		-		-		-		-		-		-		-		323
Other		27		-		-		-		-		-		-		-		27
Total	\$	473	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	473

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	229	\$ 99	\$ 4	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 332
A/E Professional		260	60	-	-	-	-	-		-	320
Construction		1,776	5,159	35	-	-	-	-		-	6,970
Contingency		-	600	-	-	-	-	-		-	600
Other		-	40	10	-	-	-	-		-	50
Total	\$	2,265	\$ 5,958	\$ 49	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 8,272

IM Facilities

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Field's Point (Providence, RI) Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	March-15	February-19	47 Months	\$555
Construction	March-19	July-21	28 Months	6,052
Total Project	March-15	July-21	76 Months	\$6,607



This project involves the design and construction of a new building that would be needed if NBC is required by legislation to assume ownership of lateral sewers currently owned by local communities within its district. The building will include an administrative area along with a garage area and storage yard.

Photo: Existing IM Building

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Ро	st FY 23	Total
Summary	\$	-	\$ 268	\$ 319	\$ 5,253	\$ 717	\$ 50	\$ -	\$	-	\$ 6,607

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	FY 22	FY 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -
A/E Professional		-		-		-		-	-	-	-		-	-
Other		-		-		-		-	-	-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F۱	Y 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	-	Total
Administrative	\$	-	\$ 18	\$ 17	\$ -	\$ -	\$ -	\$ -	\$	-	\$	35
Land		-	-	-	-	-	-	-		-		-
A/E Professional		-	250	250	-	-	-	-		-		500
Other		-	-	20	-	-	-	-		-		20
Total	\$	-	\$ 268	\$ 287	\$ -	\$ -	\$ -	\$ -	\$	-	\$	555

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Administrative	\$	-	\$	-	\$	17	\$ 320	\$ 15	\$ -	\$ -	\$	-	\$ 352
A/E Professional		-		-		15	33	2	-	-		-	50
Construction		-		-		-	4,900	50	50	-		-	5,000
Contingency		-		-		-	-	600	-	-		-	600
Other		-		-		-	-	50	-	-		-	50
Total	\$	-	\$	-	\$	32	\$ 5,253	\$ 717	\$ 50	\$ -	\$	-	\$ 6,052

FPWWTF Operations and Laboratory Building Reuse

Project Manager: Thomas Brueckner, P.E. Contractor(s): Dome Construction Location: Service Road (Providence, RI) Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	July-14	March-17	32 Months	\$42
Design Construction	N/A February-17	N/A June-18	N/A 16 Months	N/A 760
Total Project	July-14	June-18	47 Months	\$802



With the completion of the Water Quality Science Building, the old Laboratory Building is empty and there is vacated space in the old FPWWTF Operations Building. This project involves the evaluation of these newly vacated spaces for reuse and construction of the recommended improvements.

Photo: Old Laboratory Building

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Summary	\$	75	\$ 685	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 760

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	42	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ 42
A/E Professional		-		-		-		-	-	-	-		-	-
Other		-		-		-		-	-	-	-		-	-
Total	\$	42	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ 42

Projected Expenditures - Design

Cost Category	Pre	FY 18	F١	/ 18	FY	19	F١	′ 20	F١	′ 2 1	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre FY 18	FY 18	FY 19	FY 2	0	F١	Y 21	FY	22	F	Y 23	Post	t FY 23	Г	otal
Administrative	\$ 25	\$ 60	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	85
A/E Professional	-	-	-		-		-		-		-		-		-
Construction	50	590	-		-		-		-		-		-		640
Contingency	-	10	-		-		-		-		-		-		10
Other	-	25	-		-		-		-		-		-		25
Total	\$ 75	\$ 685	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	760

FPWWTF Final Clarifier Improvements

Project Manager: Rich Bernier, P.E. Contractor(s): Hart Engineering Corp. Location: Field's Point WWTF (Providence, RI) Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-15	May-16	10 Months	\$50
Construction	May-16	January-19	31 Months	4,137
Total Project	July-15	January-19	42 Months	\$4,187



This project involves replacement of the internal drive and scraper mechanisms and new launder covers on final clarifiers 1, 2 and 3 and new launder covers on final clarifiers 4-9 at the Field's Point WWTF. This project includes a new Grit Pad, Return Sludge Pump Station #2 HVAC unit replacement and installation of rip rap on the slope along New York Ave.

Photo: Final Clarifier at FPWWTF

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Summary	\$	920	\$ 2,925	\$ 292	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 4,137

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	I	FY 20	FY 21	FY 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-	-		-		-	-
Other		-		-		-		-	-	-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	I	Y 22	I	FY 23	Post	t FY 23	1	otal
Administrative	\$	50	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	50
Land		-		-		-		-		-		-		-		-		-
A/E Professional		-		-		-		-		-		-		-		-		-
Other		-		-		-		-		-		-		-		-		-
Total	\$	50	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	50

Projected Expenditures - Construction

Cost Category	Pre F	Y 18	FY	18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	46	\$	48	\$	10	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 104
A/E Professional		-		30		-	-	-	-	-		-	30
Construction		870		2,817		40	-	-	-	-		-	3,727
Contingency		-		-		236	-	-	-	-		-	236
Other		4		30		6	-	-	-	-		-	40
Total	\$	920	\$	2,925	\$	292	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 4,137

FPWWTF Maintenance Facilities

Project Manager: Tom Brueckner, P.E. Contractor(s): N/A Location: Field's Point & Bucklin Point WWTF Project Priority: D

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-17	December-18	19 Months	\$724
Construction	March-19	April-21	25 Months	5,724
Total Project	May-17	April-21	47 Months	\$6,448



This project involves the design and construction of a new maintenance building and support facilities for equipment storage at the FPWWTF. While not critical to plant operations, it will improve efficiency in maintenance support because the existing maintenance building was built nearly 117 years ago and is outdated.

Photo: Existing Maintenance Building

CIP Window	Pre F	Y 18	FY 18	FY 19	FY 20	FY 21	FY 22	F	Y 23	Pos	t FY 23	Total
Summary	\$	3	\$ 396	\$ 764	\$ 2,611	\$ 2,674	\$ -	\$	-	\$	-	\$ 6,448

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	I	FY 22	I	FY 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post FY 23	Total
Administrative	\$ 3	\$ 38	\$ 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	342	282	-	-	-	-	-	624
Other	-	16	25	-	-	-	-	-	41
Total	\$3	\$ 396	\$ 325	\$ -	\$-	\$-	\$ -	\$-	\$ 724

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	17	\$ 60	\$ 55	\$ -	\$ -	\$	-	\$ 132
A/E Professional		-		-		6	24	22	-	-		-	52
Construction		-		-		416	2,497	2,087	-	-		-	5,000
Contingency		-		-		-	-	500	-	-		-	500
Other		-		-		-	30	10	-	-		-	40
Total	\$	-	\$	-	\$	439	\$ 2,611	\$ 2,674	\$ -	\$ -	\$	-	\$ 5,724

WWTF Improvements

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Field's Point & Bucklin Point Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	March-18	Ongoing	Ongoing	\$2,888
Total Project	March-18	Ongoing	Ongoing	\$2,888



Photo: Aeration Tank Pumps

Project 20000 reflects funding of potential facility improvements at NBC's WWTFs to comply with current and future regulatory requirements and ensure uninterrupted wastewater treatment processing, 24 hours per day and 365 days per year. As new improvement projects are identified, they will be given a unique project number and draw funding from the funds available in Project 20000.

CIP Window	Pre	FY 18	F	Y 18	F	FY 19	FY 20	FY 21	FY 22	FY 23	Ро	st FY 23	Total
Summary	\$	-	\$	-	\$	388	\$ 500	\$ 500	\$ 500	\$ 500	\$	500	\$ 2,888

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F١	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	Y 18	FY	′ 19	F١	<i>(</i> 20	F	Y 21	F	Y 22	FY 23	Post	t FY 23	٦	Fotal
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
Land		-		-		-		-		-		-	-		-		-
A/E Professional		-		-		-		-		-		-	-		-		-
Other		-		-		-		-		-		-	-		-		-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19		FY 20	FY 21	FY 22	FY 23	P	ost FY 23	Total
Administrative	\$	-		\$	46	\$ 58	\$ 58	\$ 58	\$ 58	\$	58	\$ 336
A/E Professional		-			-	-	-	-	-		-	-
Construction		-		3	327	422	422	422	422		422	2,437
Contingency		-			-	-	-	-	-		-	-
Other		-			15	20	20	20	20		20	115
Total	\$	-	\$.	\$ 3	88	\$ 500	\$ 500	\$ 500	\$ 500	\$	500	\$ 2,888

FY 2017 WWTF Improvements

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: 2 Ernest Street, Providence, RI Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	February-17	August-18	17 Months	\$675
Total Project	February-17	August-18	17 Months	\$675



Project 20100 involves improvements to the hypochlorite tank pad and chlorination building. Other improvements include rehabilitation of the aeration tank wall, installation of an energy recovery system for air handling and replacement of piping in the grit building.

Photo: Hypochlorite Tank Pad

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	F	Y 22	l	FY 23	Pos	t FY 23	٦	Total
Summary	\$	51	\$ 512	\$ 112	\$ -	\$ -	\$	-	\$	-	\$	-	\$	675

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F١	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	Y 18	FY	′ 19	F١	<i>(</i> 20	F	Y 21	F	Y 22	FY 23	Post	t FY 23	٦	Fotal
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
Land		-		-		-		-		-		-	-		-		-
A/E Professional		-		-		-		-		-		-	-		-		-
Other		-		-		-		-		-		-	-		-		-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	-	Total
Administrative	\$	20	\$ 60	\$ 15	\$ -	\$ -	\$ -	\$ -	\$	-	\$	95
A/E Professional		-	-	-	-	-	-	-		-		-
Construction		31	432	57	-	-	-	-		-		520
Contingency		-	-	40	-	-	-	-		-		40
Other		-	20	-	-	-	-	-		-		20
Total	\$	51	\$ 512	\$ 112	\$ -	\$ -	\$ -	\$ -	\$	-	\$	675

81000 BPWWTF UV Disinfection Improvements

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Bucklin Point WWTF (East Providence, RI) Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	October-14	August-15	10 Months	\$26
Design	May-17	April-19	23 Months	360
Construction	October-19	October-21	24 Months	6,929
Total Project	October-14	October-21	84 Months	\$7,315



This project is to evaluate the current Ultraviolet (UV) Disinfection system at Bucklin Point and determine a system replacement/upgrade or use of an alternate technology. The current UV equipment is nearing the end of its useful life and the medium pressure, high intensity lamps are expensive and less efficient than newer technologies.

Photo: Ultraviolet Disinfection System

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Po	st FY 23	Total
Summary	\$	6	\$ 139	\$ 226	\$ 2,128	\$ 3,140	\$ 1,650	\$ -	\$	-	\$ 7,289

Projected Expenditures - Planning

Cost Category	Pre	FY 18	Ē	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post	t FY 23	Total
Administrative	\$	5	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 5
A/E Professional		20		-	-	-	-	-	-		-	20
Other		2		-	-	-	-	-	-		-	2
Total	\$	26	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 26

Projected Expenditures - Design

Cost Category	Pre FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post FY 23	Total
Administrative	\$6	\$ 34	\$ 30	\$ -	\$-	\$ -	\$ -	\$-	\$ 70
Land	-	-	-	-	-	-	-	-	-
A/E Professional	-	100	150	-	-	-	-	-	250
Other	-	5	35	-	-	-	-	-	40
Total	\$6	\$ 139	\$ 215	\$-	\$-	\$-	\$-	\$-	\$ 360

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	8	\$ 82	\$ 84	\$ 28	\$ -	\$	-	\$ 202
A/E Professional		-		-		3	36	36	12	-		-	87
Construction		-		-		-	2,000	3,000	1,000	-		-	6,000
Contingency		-		-		-	-		600	-		-	600
Other		-		-		-	10	20	10	-		-	40
Total	\$	-	\$	-	\$	11	\$ 2,128	\$ 3,140	\$ 1,650	\$ -	\$	-	\$ 6,929

BPWWTF Digester & Miscellaneous Improvements

Project Manager: Rich Bernier, P.E. Contractor(s): Hart Engineering Corp Location: Bucklin Point WWTF (East Providence, RI) Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	December-16	February-19	26 Months	\$1,354
Total Project	December-16	February-19	26 Months	\$1,354



The existing piping in the Digester Building was installed nearly 60 years ago and has been deemed deficient. This project involves replacement of existing digester methane piping and controls.

Photo: Existing Digester Methane Piping

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	13	\$ 1,333	\$ 8	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 1,354

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	I	FY 22	F	Y 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	F١	/ 18	FY	′ 19	FY	20	F١	/ 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	13	\$ 59	\$ 2	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 74
A/E Professional		-	-	-	-	-	-	-		-	-
Construction		-	1,194	6	-	-	-	-		-	1,200
Contingency		-	60	-	-	-	-	-		-	60
Other		-	20	-	-	-	-	-		-	20
Total	\$	13	\$ 1,333	\$ 8	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 1,354

81500 BPWWTF O&M Support Facilities

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Bucklin Point WWTF (East Providence, RI) Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	September-18	March-20	18 Months	\$309
Design	June-20	June-22	23 Months	1,315
Construction	November-22	October-25	35 Months	13,565
Total Project	September-18	October-25	85 Months	\$15,189



This project includes the evaluation and construction of improvements required to the Operations & Maintenance Support Facilities at the BPWWTF. The primary need to be addressed will be planning, development and construction of operations and maintenance buildings and to provide a new operations building, storage building and maintenance facilities.

Photo: O&M Support Facilities

CIP Window	Pre l	Y 18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Рс	ost FY 23	Total
Summary	\$	-	\$	-	\$ 102	\$ 210	\$ 646	\$ 666	\$ 2,394	\$	11,171	\$ 15,189

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	32	\$ 27	\$ -	\$ -	\$ -	\$	-	\$ 59
A/E Professional		-		-		60	140	-	-	-		-	200
Other		-		-		10	40	-	-	-		-	50
Total	\$	-	\$	-	\$	102	\$ 207	\$ -	\$ -	\$ -	\$	-	\$ 309

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$ 3	\$ 36	\$ 36	\$ -	\$	-	\$ 75
Land		-		-		-	-	-	-	-		-	-
A/E Professional		-		-		-	-	600	600	-		-	1,200
Other		-		-		-	-	10	30	-		-	40
Total	\$	-	\$	-	\$	-	\$ 3	\$ 646	\$ 666	\$ -	\$	-	\$ 1,315

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	FY 23	Ро	st FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 42	\$	168	\$ 210
A/E Professional		-		-		-		-		-		-	21		84	105
Construction		-		-		-		-		-		-	2,331		9,669	12,000
Contingency		-		-		-		-		-		-	-		1,200	1,200
Other		-		-		-		-		-		-	-		50	50
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 2,394	\$	11,171	\$ 13,565

Site Specific Study

Project Manager: John Motta Contractor(s): N/A Location: NBC Receiving Waters Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	June-03	June-19	192 Months	\$457
Construction	N/A	N/A	N/A	N/A
Total Project	June-03	June-19	192 Months	\$457



Photo: NBC Staff Collecting Samples

Preliminary work for the Site Specific Study required by NBC's RIPDES permit was completed in FY 2003 and final results were submitted to RIDEM in FY 2004. This study characterized the level of dissolved and total metals in the receiving waters at both Field's Point and Bucklin Point. The data obtained from this study was used for project 1140100, as well as by NBC and RIDEM in the joint development of new discharge permits and consent agreements for both plants. RIDEM is currently developing new RIPDES permits for each WWTF. As a result, new studies may be required as part of the re-permitting process if lower limits are proposed.

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	P	ost FY 23	Total
Summary	\$	211	\$ -	\$ 245	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 457

Projected Expenditures - Planning

			· · ·													
Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	F	FY 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 18		FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Administrative	\$ 1	6	\$-	\$ 234	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 250
Land	-		-	-	-	-	-	-		-	-
A/E Professional	16	3	-	6	-	-	-	-		-	169
Other	3	3	-	5	-	-	-	-		-	38
Total	\$ 21	1	\$-	\$ 245	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 457

Projected Expenditures - Construction

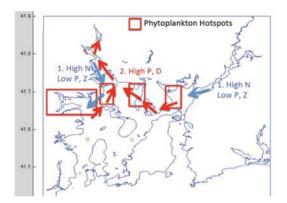
Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F١	(22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

River Model Development

Project Manager: Thomas Uva Contractor(s): Kincaid Consulting Location: NBC Receiving Waters Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	March-05	June-21	195 Months	\$537
Construction	N/A	N/A	N/A	N/A
Total Project	March-05	June-21	195 Months	\$537



NBC has partnered with the University of Rhode Island (URI) Graduate School of Oceanography (GSO) and Kincaid Consulting to develop the Regional Ocean Modeling System (ROMS) for the Providence and Seekonk Rivers and Narragansett Bay. This computer model tracks the circulation and transport of nutrients in the Bay and determines how changing nitrogen loads affect the biology and water quality of the NBC receiving waters and Narragansett Bay. Work on the physical and biological model is ongoing to further improve model predictions and to validate model accuracy, which is necessary for acceptance by stakeholders and regulators.

Photo: Map of phytoplankton flow dynamics seen in the ROMS biological model.

CIP Window	Pre	FY 18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	322	\$	80	\$ 35	\$ 55	\$ 45	\$ -	\$ -	\$	-	\$ 537

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Cost Category	Pre	FY 18	F١	18 /	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Planning

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	FY 18	I	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	56	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 56
Land		-		-		-	-	-	-	-		-	-
A/E Professional		228		80		35	35	45	-	-		-	423
Other		38		-		-	20	-	-	-		-	58
Total	\$	322	\$	80	\$	35	\$ 55	\$ 45	\$ -	\$ -	\$	-	\$ 537

Projected Expenditures - Construction

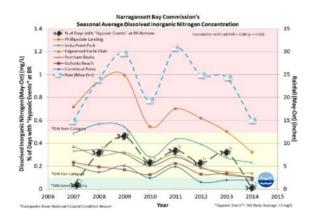
Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F١	′ 20	F	Y 21	FY	22	F	Y 23	Post	: FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Upper Bay Dissolved Oxygen Evaluation

Project Manager: Thomas Uva Contractor(s): N/A Location: NBC Receiving Waters Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-17	June-18	11 Months	\$300
Construction	N/A	N/A	N/A	N/A
Total Project	July-17	June-18	11 Months	\$300



Project 1140200 is to evaluate the effect of nitrogen reductions on dissolved oxygen levels in upper Narragansett Bay. The project involves the collection of data and the development of a comprehensive report that will assist NBC with information relative to potential permit requirements. This project also entails the engagement of consultants and legal counsel related to permit requirements that would mandate NBC to make additional capital investments.

Photo: Dissolved inorganic nitrogen concentration in the upper bay in relation to amount of low dissolved oxygen events at Bullock's Reach.

CIP Window	Pre	FY 18	FY 18	FY 19	F	Y 20	F	Y 21	F	Y 22	I	FY 23	Pos	t FY 23	Total
Summary	\$	-	\$ 300	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 300

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F١	′ 20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Тс	otal
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		-
A/E Professional		-		-		-		-		-		-		-		-		-
Other		-		-		-		-		-		-		-		-		-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F	Y 18	I	FY 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	: FY 23	Т	otal
Administrative	\$	-	\$	150	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	150
Land		-		-		-		-		-		-		-		-		-
A/E Professional		-		150		-		-		-		-		-		-		150
Other		-		-		-		-		-		-		-		-		-
Total	\$	-	\$	300	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	300

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Greenhouse Gas Study

Project Manager: James McCaughey, P.E. Contractor(s): University of Rhode Island Location: Field's Point Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	October-14	May-18	43 Months	\$77
Construction	N/A	N/A	N/A	N/A
Total Project	October-14	May-18	43 Months	\$77



Photo: Greenhouse Gas Collection

NBC's Greenhouse Gas Study is designed to quantify NBC's overall carbon footprint by measuring greenhouse gas emissions from wastewater collection and treatment operations. NBC's Greenhouse Gas Study will help NBC to better address potential future regulatory requirements related to greenhouse gas emissions.

CIP Window	Pre	FY 18	F	Y 18	FY 19	FY 20	FY 21	I	Y 22	FY 23	Pos	st FY 23	Total
Summary	\$	31	\$	46	\$ -	\$ -	\$ -	\$	-	\$ -	\$	-	\$ 77

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	FY 22	FY 23	Post	: FY 23	Т	otal
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-		-
A/E Professional		-		-		-		-	-	-	-		-		-
Other		-		-		-		-	-	-	-		-		-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-

Projected Expenditures - Design

Cost Category	Pre FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post FY 23	Total
Administrative	\$ 11	\$6	\$-	\$ -	\$-	\$ -	\$ -	\$-	\$ 17
Land	-	-	-	-	-	-	-	-	-
A/E Professional	20	40	-	-	-	-	-	-	60
Other	-	-	-	-	-	-	-	-	-
Total	\$ 31	\$ 46	\$ -	\$-	\$-	\$-	\$-	\$-	\$77

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

NBC Energy Sustainability

Project Manager: James McCaughey, P.E. Contractor(s): Various Location: Various Locations Project Priority: C

tal Project Duration/Cost Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands
Planning	N/A	N/A	N/A	N/A
Design	January-16	August-18	31 Months	\$85
Construction	N/A	N/A	N/A	N/A
Total Project	January-16	August-18	31 Months	\$85



Photo: Methods of generating energy

NBC's Energy Sustainability Program is designed to identify, measure, and implement ways of obtaining and using energy in such ways that energy needs of today are met while minimizing environmental impacts and assuring sufficient sources of energy are available to meet future needs. NBC will maximize use of conservation, efficiency, and sustainable renewable energy resources in an economically viable and sound manner.

CIP Window	Pre	FY 18	I	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	٦	Fotal
Summary	\$	42	\$	34	\$ 9	\$ -	\$ -	\$ -	\$ -	\$	-	\$	85

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F١	í 19	F	Y 20	F	Y 21	F	Y 22	I	FY 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	-	Total
Administrative	\$	28	\$	27	\$ 9	\$ -	\$ -	\$ -	\$ -	\$	-	\$	64
Land		-		-	-	-	-	-	-		-		-
A/E Professional		5		-	-	-	-	-	-		-		5
Other		9		6	-	-	-	-	-		-		15
Total	\$	42	\$	34	\$ 9	\$ -	\$ -	\$ -	\$ -	\$	-	\$	85

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	I	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
Land		-		-		-		-		-		-	-		-	-
A/E Professional		-		-		-		-		-		-	-		-	-
Construction		-		-		-		-		-		-	-		-	-
Contingency		-		-		-		-		-		-	-		-	-
Other		-		-		-		-		-		-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -

NBC Interceptor Easement Restoration, AVI

Project Manager: Rich Bernier, P.E. Contractor(s): Manafort Brother's Inc. Location: Cumberland, RI Project Priority: A

Total Project Duration/Cost Project Phase	Start Date	Completion Date_	Project Duration	<u>Cost (in Thousands)</u>
Planning	N/A	N/A	N/A	N/A
Design	October-05	April-17	138 Months	\$831
Construction	March-16	June-18	26 Months	830
Total Project	October-05	June-18	152 Months	\$1,661



Much of the NBC sewer system in Cumberland is located in easements that cross private property. This project is to evaluate the Abbott Valley Interceptor easements and clear the easements to provide necessary access under the construction phase of this project to maintain the integrity of the collection system.

Photo: Cumberland sewer system easement locations

CIP Window	Pre	FY 18	FY 18	FY 19	I	FY 20	FY 21	F	Y 22	FY 23	Post	t FY 23	٦	Total
Summary	\$	714	\$ 116	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-	\$	830

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 18		FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Po	st FY 23	Total
Administrative	\$ 300) (\$-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 300
Land	84	L	-	-	-	-	-	-		-	84
A/E Professional	428	3	-	-	-	-	-	-		-	428
Other	18	3	-	-	-	-	-	-		-	18
Total	\$ 831	L	\$-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 831

Projected Expenditures - Construction

Cost Category	Pre FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post FY 23	Total
Administrative	\$ 95	\$ 27	\$-	\$ -	\$-	\$ -	\$ -	\$ -	\$ 122
A/E Professional	42	1	-	-	-	-	-	-	43
Construction	533	7	-	-	-	-	-	-	540
Contingency	-	50	-	-	-	-	-	-	50
Other	44	31	-	-	-	-	-	-	75
Total	\$ 714	\$ 116	\$-	\$ -	\$-	\$-	\$ -	\$ -	\$ 830

NBC Interceptor Easements Restoration, Various Locations

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: NBC Service Area Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	September-17	November-18	14 Months	\$415
Construction	April-19	November-19	7 Months	439
Total Project	September-17	November-19	26 Months	\$854



This project involves verification of easement locations and clearing the easements in overland areas to ensure sufficient access.

Photo: Proposed area for the East Providence easement investigation

CIP Window	Pre F	Y 18	FY 18	I	FY 19	FY 20	FY 21	F	Y 22	FY 23	Pos	st FY 23	-	Total
Summary	\$	-	\$ 220	\$	313	\$ 321	\$ -	\$	-	\$ -	\$	-	\$	854

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	l	FY 20	FY 21	FY 22	FY 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -
A/E Professional		-		-		-		-	-	-	-		-	-
Other		-		-		-		-	-	-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F	Y 18	FY	19	FY 20	FY 21	FY 22	FY 23	Post	: FY 23	Total
Administrative	\$	-	\$	20	\$	30	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 50
Land		-		-		50	-	-	-	-		-	50
A/E Professional		-		200		100	-	-	-	-		-	300
Other		-		-		15	-	-	-	-		-	15
Total	\$	-	\$	220	\$	195	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 415

Projected Expenditures - Construction

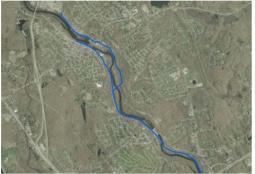
Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	18	\$ 20	\$ -	\$ -	\$ -	\$	-	\$ 38
A/E Professional		-		-		-	-	-	-	-		-	-
Construction		-		-		100	250	-	-	-		-	350
Contingency		-		-		-	35	-	-	-		-	35
Other		-		-		-	16	-	-	-		-	16
Total	\$	-	\$	-	\$	118	\$ 321	\$ -	\$ -	\$ -	\$	-	\$ 439

NBC Interceptor Easements Restoration, BVI

Project Manager: Thomas Brueckner, P.E. Contractor(s): VHB Location: Cumberland & Lincoln Rhode Island Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	July-09	April-18	105 Months	\$428
Construction	March-17	October-18	18 Months	971
Total Project	July-09	October-18	111 Months	\$1,399



This project involves the location of manholes along the Blackstone Valley Interceptor in Lincoln and Cumberland and verification of NBC easement locations. Once easements are verified, easement clearing will commence as necessary to provide access to maintain the collection system. This project is critical to maintain NBC's infrastructure.

Photo: Blackstone Valley Interceptor in Lincoln

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	313	\$ 1,069	\$ 17	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 1,399

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	FY 22	F	Y 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-	-		-		-	-
Other		-		-		-		-	-	-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 18	FY 18	FY 19	I	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$ 85	\$ 30	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$ 115
Land	-	10	-		-	-	-	-		-	10
A/E Professional	228	50	-		-	-	-	-		-	278
Other	-	25	-		-	-	-	-		-	25
Total	\$ 313	\$ 115	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$ 428

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$ 84	\$ 2	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 86
A/E Professional		-	46	-	-	-	-	-		-	46
Construction		-	675	15	-	-	-	-		-	690
Contingency		-	150	-	-	-	-	-		-	150
Other		-	-	-	-	-	-	-		-	-
Total	\$	-	\$ 954	\$ 17	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 971

NBC System-wide Facilities Planning

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: NBC Service Area Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	February-18	August-19	18 Months	\$386
Construction	N/A	N/A	N/A	N/A
Total Project	February-18	August-19	18 Months	\$386



Project 30700 is to continue NBC's studies to determine if there is adequate capacity for the next twenty years and if there is any excess infiltration/inflow in NBC's interceptors. As the evaluations begin for specific cities and towns, each will be given a unique project number and draw funding from project 30700.

Photo: Proposed area for the East Providence capacity analysis

CIP Window	Pre	FY 18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Summary	\$	-	\$	49	\$ 268	\$ 69	\$ -	\$ -	\$ -	\$	-	\$ 386

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	I	FY 22	I	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre l	FY 18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	17	\$ 60	\$ 5	\$ -	\$ -	\$ -	\$	-	\$ 82
Land		-					-	-	-		-	-
A/E Professional		-		32	208	34	-	-	-		-	274
Other		-				30	-	-	-		-	30
Total	\$	-	\$	49	\$ 268	\$ 69	\$ -	\$ -	\$ -	\$	-	\$ 386

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F١	22	F	Y 23	Post	: FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

NBC Facility Electrical Improvements

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Providence, RI Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	May-18	May-19	12 Months	\$130
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
Total Project	May-18	Мау-19	12 Months	\$130



Photo: NBC FPWWTF Electrical Facilities

This project is to evaluate NBC's existing electrical equipment and facilities. Upon completion of the evaluation, improvements will be performed as necessary to ensure reliable and continuous operation of NBC's facilities.

CIP Window	Pre	FY 18	F١	18	I	FY 19	I	FY 20	FY 21	F	Y 22	FY 23	Pos	t FY 23	Т	otal
Summary	\$	-	\$	21	\$	109	\$	-	\$ -	\$	-	\$ -	\$	-	\$	130

Projected Expenditures - Planning

Cost Category	Pre	FY 18	_	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	3	\$ 17	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 20
A/E Professional		-		8	92	-	-	-	-		-	100
Other		-		10	-	-	-	-	-		-	10
Total	\$	-	\$	21	\$ 109	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 130

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	Y 18	F١	/ 19	FY	20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F١	22	F	Y 23	Post	: FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

134

FPWWTF Facility Electrical Improvements

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A

Location: Providence, RI Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	May-16	December-18	31 Months	\$125
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
Total Project	May-16	December-18	31 Months	\$125



Photo: Field's Point Electrical Panel

This project is to evaluate and install standby power capabilities for critical facilities at the FPWWTF to maintain uninterrupted facilities operation.

CIP Window	Pr	e FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Р	ost FY	23	Total	
Summary	\$	21	\$ 40	\$ 64	\$ -	\$ -	\$ -	\$ -	\$		•	\$ 125	

Projected Expenditures - Planning

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	6	\$ 20	\$ 24	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 50
A/E Professional		-	15	40	-	-	-	-		-	55
Other		15	5	-	-	-	-	-		-	20
Total	\$	21	\$ 40	\$ 64	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 125

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	FY 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
Land		-		-		-		-		-		-	-		-	-
A/E Professional		-		-		-		-		-		-	-		-	-
Other		-		-		-		-		-		-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Pos	t FY 23	•	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
A/E Professional		-		-		-		-		-		-		-		-		-
Construction		-		-		-		-		-		-		-		-		-
Contingency		-		-		-		-		-		-		-		-		-
Other		-		-		-		-		-		-		-		-		-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

NBC System-wide Inflow Reduction Program-Design

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: NBC Service Area Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	September-18	January-20	16 Months	\$108
Construction	March-20	May-21	14 Months	210
Total Project	September-18	May-21	32 Months	\$318



This project is to develop and implement an inflow reduction program to remove storm water from sanitary sewers in the NBC's service area. This project is imperative to ongoing operation to prevent surcharging of sewers that could cause illegal sanitary sewer overflows in wet weather.

Photo: Downspouts at the NBC COB

CIP Window	Pre l	Y 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	-	\$	-	\$	53	\$ 80	\$ 185	\$ -	\$ -	\$	-	\$ 318

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	FY 22	FY 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -
A/E Professional		-		-		-	-	-	-	-		-	-
Other		-		-		-	-	-	-	-		-	-
Total	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F١	FY 18		FY 19		FY 20		FY 21		FY 22	FY 23		Post FY 23		Total
Administrative	\$	-	\$	-	\$	18	\$	11	\$	-	\$	-	\$	-	\$	-	\$ 29
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		30		44		-		-		-		-	74
Other		-		-		5		-		-		-		-		-	5
Total	\$	-	\$	-	\$	53	\$	55	\$	-	\$	-	\$	-	\$	-	\$ 108

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		Post FY 23		Total
Administrative	\$	-	\$	-	\$	-	\$	12	\$	44	\$	-	\$	-	\$	-	\$	56
A/E Professional		-		-		-		3		11		-		-		-		14
Construction		-		-		-		10		110		-		-		-		120
Contingency		-		-		-		-		10		-		-		-		10
Other		-		-		-		-		10		-		-		-		10
Total	\$	-	\$	-	\$	-	\$	25	\$	185	\$	-	\$	-	\$	-	\$	210

Municipal Sewer Acquisition Impact

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: NBC Service Area Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	June-17	April-18	10 Months	\$296
Design	N/A	N/A	N/A	N/A
Construction	N/A	N/A	N/A	N/A
Total Project	June-17	April-18	10 Months	\$296



Photo: Municipal Sewer Manhole Cover

This project is to evaluate the impact of NBC assuming ownership of lateral sewers that are currently owned by municipalities within the NBC service area. This project will be required should legislation be passed by the General Assembly requiring NBC to take over ownership and maintenance of local sewers within the NBC district.

CIP Window	Pre F	Y 18	FY 18	FY 19	I	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Summary	\$	3	\$ 293	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$ 296

Projected Expenditures - Planning

Cost Category	Pre	FY 18	Ŭ	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post	t FY 23	Total
Administrative	\$	3	\$	33	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 36
A/E Professional		-		250	-	-	-	-	-		-	250
Other		-		10	-	-	-	-	-		-	10
Total	\$	3	\$	293	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 296

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	FY 18		FY 19		20	FY 21		FY 22		FY 23		Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	FY 18		FY 19		Y 20	FY 21		FY 22		FY 23		Post	: FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

137

40400 FPWWTF Facilities Plan Update

Project Manager: Thomas Brueckner, P.E. Contractor(s): CH2M Hill Location: Providence, RI Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	January-17	October-17	9 Months	\$255 N/A
Design Construction	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Total Project	January-17	October-17	9 Months	\$255



Photo: Aeration Tanks FPWWTF

This project is to update the FPWWTF Facilities Plan and determine the maximum Nitrogen and BOD loads that can be accepted at the facility within RIPDES permit limits.

CIP Window	Pre	e FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Po	st FY 23	Total
Summary	\$	155	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 255

Projected Expenditures - Planning

Cost Category	Pre	FY 18	_	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	135	\$	100	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 235
A/E Professional		20		-	-	-	-	-	-		-	20
Other		-		-	-	-	-	-	-		-	-
Total	\$	155	\$	100	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 255

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	18 /	F	Y 19	F١	20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F١	22	F	Y 23	Post	: FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

NBC System-wide RIPDES Flow Monitoring

Project Manager: Meg Goulet, P.E. Contractor(s): N/A Location: Field's Point and Bucklin Point Project Priority: C

Total Project Duration/Cost <u>Project Phase</u> Planning	<u>Start Date</u> N/A	Completion Date N/A	Project Duration N/A	<u>Cost (in Thousands)</u> N/A
Design Construction	August-17 N/A	September-18 N/A	13 Months N/A	\$848 N/A
Total Project	August-17	September-18	13 Months	\$848



Photo: Floatables Control Facility

This project involves condition assessments of existing flow monitoring equipment located throughout NBC's collection system. An evaluation will be conducted to determine whether the equipment should be upgraded or replaced with an alternate advanced technology in order to provide consistent and accurate monitoring of flow conditions and measurements in accordance with the RIPDES permit. In addition, field services and data analysis will be conducted throughout the collection system.

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	-	\$ 629	\$ 219	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 848

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F١	19	F١	(20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY	18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$ 74	\$ 24	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 98
Land		-	-	-	-	-	-	-		-	-
A/E Professional		-	555	195	-	-	-	-		-	750
Other		-	-	-	-	-	-	-		-	-
Total	\$	-	\$ 629	\$ 219	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 848

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Pos	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Construction		-		-		-		-		-		-		-		-	-
Contingency		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

CSO Phase III A Facilities

Project Manager: Kathryn Kelly, P.E. Contractor(s): Stantec Consulting Services Location: Pawtucket, RI Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	April-13	December-21	104 Months	\$59,217
Construction	January-22	December-25	47 Months	450,130
Total Project	April-13	December-25	152 Months	\$509,347



Phase III A is to design and construct a deep rock tunnel in Pawtucket approximately 13,000 feet in length along the Seekonk and Blackstone Rivers, a pump station to convey flow to the Bucklin Point WWTF in East Providence, drop shafts and consolidation conduits. In addition, GSI facilities will be constructed to reduce storm water inflow by infiltration of storm water into the ground.

Photo: Proposed Phase III CSO Facilities

CIP Window	Pre	e FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post FY 23	Total
Summary	\$	6,286	\$ 14,727	\$ 12,965	\$ 11,119	\$ 8,164	\$ 6,076	\$ 62,670	\$ 387,340	\$ 509,347

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	I	FY 21	F	Y 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Po	st FY 23	Total
Administrative	\$ 663	\$ 225	\$ 145	\$ 120	\$ 190	\$ 90	\$ -	\$	-	\$ 1,433
Land	-	2,000	-	-	-	2,000	-		-	4,000
A/E Professional	5,577	11,292	11,520	10,866	7,974	3,866	-		-	51,095
Other	46	1,210	1,300	133	-	-	-		-	2,689
Total	\$ 6,286	\$ 14,727	\$ 12,965	\$ 11,119	\$ 8,164	\$ 5,956	\$ -	\$	-	\$ 59,217

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	F	Y 22	FY 23	Post FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	120	\$ 270	\$ 2,340	\$ 2,730
A/E Professional		-		-		-		-	-		-	12,000	54,000	66,000
Construction		-		-		-		-	-		-	50,400	308,000	358,400
Contingency		-		-		-		-	-		-	-	23,000	23,000
Other		-		-		-		-	-		-	-	-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	120	\$ 62,670	\$ 387,340	\$ 450,130

30810 CSO Phase III B Facilities

Project Manager: Kathryn Kelly, P.E. Contractor(s): N/A Location:Central Falls, RI Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	January-26	December-28	35 Months	\$3,305
Construction	January-29	December-30	23 Months	30,217
Total Project	January-26	December-30	59 Months	\$33,522



Phase III B is to design and construct two interceptors at High and Cross Street which will be approximately 4,200 feet in length and one at Middle Street approximately 2,000 feet in length. These interceptors will convey flow to the tunnel to be built in Phase III A. In addition, GSI facilities will be constructed to reduce storm inflow to the combined sewer system, and one sewer separation project will be included as part of Phase III B.

Photo: Proposed Phase III CSO Facilities

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	I	Y 22	FY 23	Р	ost FY 23	Total
Summary	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$	33,522	\$ 33,522

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	I	FY 21	F	Y 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre l	FY 18	F	18 /	F	(19	F١	20	l	FY 21	F	Y 22	FY 23	Pos	st FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	505	\$ 505
Land		-		-		-		-		-		-	-		500	500
A/E Professional		-		-		-		-		-		-	-		2,100	2,100
Other		-		-		-		-		-		-	-		200	200
Total	\$	-	\$	-	\$	•	\$	-	\$	-	\$	-	\$ -	\$	3,305	\$ 3,305

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20		FY 21	F	Y 22	FY 23	Po	ost FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	500	\$ 500
A/E Professional		-		-		-		-		-		-	-		4,224	4,224
Construction		-		-		-		-		-		-	-		23,193	23,193
Contingency		-		-		-		-		-		-	-		2,300	2,300
Other		-		-		-		-		-		-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	30,217	\$ 30,217

30820 CSO Phase III C Facilities

Project Manager: Kathryn Kelly, P.E. Contractor(s): N/A Location: Pawtucket, RI Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design Construction	January-31 January-35	December-34 December-36	47 Months 23 Months	\$13,110 153,799
construction	Janual y-55	December-50	23 10011(115	133,735
Total Project	January-31	December-36	71 Months	\$166,909



Phase III C is to design and construct a stub tunnel that will convey flow from CSO 220 to the tunnel to be constructed in Phase III A. In addition, GSI facilities will be constructed to reduce storm water inflow to the combined sewers.

Photo: Proposed Phase III CSO Facilities

CIP Window	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	I	Y 21	F	Y 22	I	FY 23	Post FY 23	Total
Summary	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 166,909	\$ 166,909

Projected	Expenditures -	Planning
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Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F١	Y 20	FY 21	I	FY 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre l	FY 18	F١	18 /	F١	19	FY	20	F	Y 21	F	Y 22	I	FY 23	Ро	st FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	505	\$ 505
Land		-		-		-		-		-		-		-		200	200
A/E Professional		-		-		-		-		-		-		-		11,305	11,305
Other		-		-		-		-		-		-		-		1,100	1,100
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	13,110	\$ 13,110

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	I	FY 21	F	Y 22	FY 23	Post FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$ 430	\$ 430
A/E Professional		-		-		-		-		-		-	-	18,611	18,611
Construction		-		-		-		-		-		-	-	122,358	122,358
Contingency		-		-		-		-		-		-	-	12,200	12,200
Other		-		-		-		-		-		-	-	200	200
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$ 153,799	\$ 153,799

30830 CSO Phase III D Facilities

Project Manager: Kathryn Kelly, P.E. Contractor(s): N/A Location: Providence, RI Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	January-37	December-39	35 Months	\$7,083
Construction	January-40	December-41	23 Months	78,294
Total Project	January-37	December-41	59 Months	\$85,377



Phase III D is to design and construct an interceptor that will store flow during a storm and later release the flow into the system as capacity allows. In addition, GSI facilities will be constructed to reduce storm water inflow to the combined sewer system.

Photo: Proposed Phase III CSO Facilities

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	I	FY 21	FY 22	FY 23	Рс	ost FY 23	Total
Summary	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$	85,377	\$ 85,377

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	I	FY 21	F	Y 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F١	<i>(</i> 20	FY 21	I	FY 22	FY 23	Pos	st FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$	575	\$ 575
Land		-		-		-		-	-		-	-		200	200
A/E Professional		-		-		-		-	-		-	-		5,735	5,735
Other		-		-		-		-	-		-	-		573	573
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$	7,083	\$ 7,083

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	I	FY 21	F	Y 22	FY 23	Ро	ost FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	500	\$ 500
A/E Professional		-		-		-		-		-		-	-		9,484	9,484
Construction		-		-		-		-		-		-	-		62,100	62,100
Contingency		-		-		-		-		-		-	-		6,210	6,210
Other		-		-		-		-		-		-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	78,294	\$ 78,294

304 M Summary

Interceptor Inspection and Cleaning

Project Manager: Meg Goulet, P.E. Contractor(s): Various Location: NBC Service Area Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Inspection and Cleaning	July-09	Ongoing	Ongoing	\$3,713
Total Project	July-09	Ongoing	Ongoing	\$3,713



Photo: End of North Outfall Pipe

The 304 M projects continue NBC's program to clean and inspect NBC interceptors as needed. The TV inspections assist in determining pipe conditions and developing solutions to any problems which may be identified. Based on completed inspections to date, the cleaning is needed to remove accumulated grit. As new inspection and cleaning projects are identified, they will be given a unique project number and draw funding from the funds available in Project 30400M.

	Pre F	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
CIP Window Summary	\$	213	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$	500	\$ 3,713

Projected Expenditures - Planning

· · · · · · · · · · · · · · · · · · ·															
Cost Category	Pre FY	18	FY	18	FY	19	F	Y 20	FY 21	FY 22	F١	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-	-		-		-	-
Other		-		-		-		-	-	-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F	Y 18	FY	18	FY	19	I	FY 20	FY 21	I	FY 22	F١	í 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-	-		-		-		-	-
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	e FY 18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	23	\$	52	\$ 55	\$ 55	\$ 55	\$ 55	\$ 55	\$	55	\$ 405
A/E Professional		-		-	-	-	-	-	-		-	-
Construction		160		370	370	370	370	370	370		370	2,750
Contingency		-		-	-	-	-	-	-		-	-
Other		30		78	75	75	75	75	75		75	558
Total	\$	213	\$	500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$	500	\$ 3,713

30400C

Interceptor Restoration and Construction

Project Manager: Rich Bernier, P.E. Contractor(s): Various Location: NBC Service Area Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	July-01	Ongoing	Ongoing	\$6,000
Total Project	July-01	Ongoing	Ongoing	\$6,000



Project 30400C reflects funding of potential restoration and construction resulting from NBC's inspection and cleaning projects and emergency situations. Interceptor restoration and construction projects result from such issues as root intrusion, structural damage, odor control, aging infrastructure, inaccessible structures, pipe damage and emergency situations. As new repair and construction projects are identified, they are given a unique project number and draw funding from the funds available in Project 30400C.

Photo: Proposed portion of Lincoln Interceptor Replacement

CIP Window	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	FY 22	FY 23	Рс	ost FY 23	Total
Summary	\$	-	\$	-	\$		\$	-	\$ 1,500	\$ 1,500	\$ 1,500	\$	1,500	\$ 6,000

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	FY 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-	-		-		-	-
Other		-		-		-		-	-	-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	18 /	F	Y 19	F١	20	F	Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	Y 20	FY 21	F	Y 22	FY 23	Ро	st FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ 75	\$	75	\$ 75	\$	75	\$ 300
A/E Professional		-		-		-		-	-		-	-		-	-
Construction		-		-		-		-	1,250		1,250	1,250		1,250	5,000
Contingency		-		-		-		-	150		150	150		150	600
Other		-		-		-		-	25		25	25		25	100
Total	\$	-	\$	-	\$	-	\$	-	\$ 1,500	\$	1,500	\$ 1,500	\$	1,500	\$ 6,000

30421 Louisquisset Pike Interceptor Improvements

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Lincoln, RI Project Priority: C

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-07	May-09	23 Months	\$178
Construction	March-18	November-19	20 Months	4,044
Total Project	May-07	November-19	149 Months	\$4,222



resulting from expected development.

This project is to design and construct a larger diameter interceptor in the Northern section of the Town of Lincoln. The larger capacity pipe will accommodate the additional flow

Photo: Lincoln Interceptor Replacement Location

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	st FY 23	Total
Summary	\$	-	\$ 279	\$ 3,490	\$ 275	\$ -	\$ -	\$ -	\$	-	\$ 4,044

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	I	FY 20	FY 21	I	FY 22	F	Y 23	Post	t FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-		-		-		-	-
Other		-		-		-		-	-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY	18	F	18 /	F	Y 19	F	Y 20	F	Y 21	F	Y 22	F	Y 23	Post	: FY 23	Total
Administrative	\$	23	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 23
Land		-		-		-		-		-		-		-		-	-
A/E Professional		155		-		-		-		-		-		-		-	155
Other		-		-		-		-		-		-		-		-	-
Total	\$	178	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ 178

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY :	18	I	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	-	\$	20	\$	96	\$ 25	\$ -	\$ -	\$ -	\$	-	\$ 141
A/E Professional		-		9		44	-	-	-	-		-	53
Construction		-		250		3,000	250	-	-	-		-	3,500
Contingency		-		-		350	-	-	-	-		-	350
Other		-		-		-	-	-	-	-		-	-
Total	\$	-	\$	279	\$	3,490	\$ 275	\$ -	\$ -	\$ -	\$	-	\$ 4,044

Mosshassuck Valley Interceptor

Project Manager: Thomas Brueckner, P.E. Contractor(s): N/A Location: Central Falls Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	May-06	October-06	5 Months	\$22
Design	January-12	July-17	66 Months	504
Construction	March-18	December-19	21 Months	6,531
Total Project	May-06	December-19	163 Months	\$7,057



An inspection of the Moshassuck Valley Interceptor from Higginson Street in Central Falls to Lockbridge Street in Pawtucket revealed that this line has sunk from its original grade at numerous points, by as much as 2.5 feet. This project is to design and construct a new sewer to replace the existing sewer.

Photo: Portion of the Moshassuck Valley Interceptor to be replaced

CIP Window	Pre F	Y 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 22	Pos	t FY 23	Total
Summary	\$	491	\$ 33	\$ 3,997	\$ 2,514	\$ -	\$ -	\$ -	\$	-	\$ 7,035

Projected Expenditures - Planning

Cost Category	Pre F	Y 18	FY 18	FY 19	FY 20	FY 21	FY 22	I	FY 22	Pos	t FY 23	Total
Administrative	\$	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$	-	\$ 2
A/E Professional		20	-	-	-	-	-		-		-	20
Other		-	-	-	-	-	-		-		-	-
Total	\$	22	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$	-	\$ 22

Projected Expenditures - Design

Cost Category	Pre FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 22	Post FY 23	Total
Administrative	\$ 72	\$ 6	\$-	\$ -	\$-	\$ -	\$ -	\$ -	\$ 78
Land	95	-	-	-	-	-	-	-	95
A/E Professional	317	7	-	-	-	-	-	-	324
Other	7	-	-	-	-	-	-	-	7
Total	\$ 491	\$ 13	\$-	\$ -	\$ -	\$-	\$-	\$-	\$ 504

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	FY 18	I	FY 19	FY 20	FY 21	FY 22	F	Y 22	Pos	t FY 23	Total
Administrative	\$	-	\$	14	\$	63	\$ 22	\$ -	\$ -	\$	-	\$	-	\$ 99
A/E Professional		-		6		24	12	-	-		-		-	42
Construction		-		-		3,900	1,900	-	-		-		-	5,800
Contingency		-		-		-	580	-	-		-		-	580
Other		-		-		10		-	-		-		-	10
Total	\$	-	\$	20	\$	3,997	\$ 2,514	\$ -	\$ -	\$	-	\$	-	\$ 6,531

Providence River Siphon

Project Manager: Thomas Brueckner, P.E. Contractor: Stantec Consulting Services Location: Providence, RI Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	March-13	May-15	26 Months	\$228
Design	July-15	December-17	29 Months	414
Construction	January-18	July-19	18 Months	6,139
Total Project	March-13	July-19	76 Months	\$6,781



During the planning phase of this project, it was determined that the existing Providence River siphon was in good condition but that a section of the 78" interceptor needed to be replaced and that the inlet and outlet siphon chambers needed repair. These deficiencies will be corrected in the design and construction phases.

Photo: Siphon Outlet Chamber

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Ро	st FY 23	Total
Summary	\$	362	\$ 89	\$ 5,134	\$ 967	\$ -	\$ -	\$ -	\$	-	\$ 6,553

Projected Expenditures - Planning

Cost Category	Pre	FY 18	- 1	FY 18	FY 19	FY 20	FY 21	FY 22	I	FY 23	Pos	t FY 23	Total
Administrative	\$	100	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$	-	\$ 100
A/E Professional		123		-	-	-	-	-		-		-	123
Other		5		-	-	-	-	-		-		-	5
Total	\$	228	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$	-	\$ 228

Projected Expenditures - Design

Cost Category	Pre FY	18	F	Y 18	FY 19	FY 20	FY 21	FY 22	FY 23	Post	: FY 23	Total
Administrative	\$	112	\$	12	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 124
Land		-		21	-	-	-	-	-		-	21
A/E Professional		251		18	-	-	-	-	-		-	269
Other		-		-	-	-	-	-	-		-	-
Total	\$	362	\$	51	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 414

Projected Expenditures - Construction

Cost Category	Pre	FY 18	F	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	 Total
Administrative	\$	-	\$	20	\$ 48	\$ 4	\$ -	\$ -	\$ -	\$	-	\$ 72
A/E Professional		-		18	36	3	-	-	-		-	57
Construction		-		-	5,000	400	-	-	-		-	5,400
Contingency		-		-	-	560	-	-	-		-	560
Other		-		-	50	-	-	-	-		-	50
Total	\$	-	\$	38	\$ 5,134	\$ 967	\$ -	\$ -	\$ -	\$	-	\$ 6,139

Johnston Sewer Improvements/Greenville Avenue

Project Manager: Rich Bernier, P.E. Contractor(s): DiGregorio, Inc. Location: Johnston, RI Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	May-16	September-17	16 Months	\$410
Construction	February-17	April-18	13 Months	8,915
Total Project	May-16	April-18	23 Months	\$9,325



Photo: Construction on Greenville Avenue

The Facilities Plan for Johnston has been completed and approved by RIDEM. The plan recommended that sewers in the Town be expanded to accommodate future development in the Town. This project is to design and construct the first of these proposed improvements. This project involves the installation of approximately 6,750 linear foot of 12" pipe in Greenville Avenue from Salina Rd. to west of Rt. 295.

CIP Window	Pr	e FY 18	FY 18	F	Y 19	FY 20	FY 21	F	Y 22	FY 23	Post	FY 23	Total
Summary	\$	1,304	\$ 8,022	\$	-	\$ -	\$ -	\$	-	\$ -	\$	-	\$ 9,325

Projected Expenditures - Planning

Cost Category	Pre F	Y 18	F	Y 18	FY	19	F	Y 20		Y 21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	FY 18	I	FY 19	FY 20	FY 21	FY 22	F	Y 23	Post	FY 23	-	Fotal
Administrative	\$	119	\$ 27	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	145
Land		50	-		-	-	-	-		-		-		50
A/E Professional		210	-		-	-	-	-		-		-		210
Other		5	-		-	-	-	-		-		-		5
Total	\$	384	\$ 27	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	410

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	l	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	80	\$ 255	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 335
A/E Professional		-	-		-	-	-	-	-		-	-
Construction		840	6,990		-	-	-	-	-		-	7,830
Contingency		-	750		-	-	-	-	-		-	750
Other		-	-		-	-	-	-	-		-	-
Total	\$	920	\$ 7,995	\$	-	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 8,915

Note: Cash Flow Basis in Thousands

CIP

Improvements to Interceptors FY 2017

Project Manager: Rich Bernier, P.E. Contractor(s): R. Zoppo Corp. Location: Throughout The System Project Priority: A

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	N/A	N/A	N/A	N/A
Construction	April-17	December-18	19 Months	\$1,571
Total Project	April-17	December-18	19 Months	\$1,571



This project is to correct various deficiencies throughout the sewer system in Providence, Central Falls and Cumberland such as sewer lining, point repairs to sewers, install hatches for better access to structures, abandonment of an outfall pipe, and rehabilitation to leaking manholes.

Photo: Conducting Sewer System Repairs

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Total
Summary	\$	245	\$ 1,315	\$ 11	\$ -	\$ -	\$ -	\$ -	\$	-	\$ 1,571

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	I	FY 20	FY 21	FY 22	FY 23	Post	: FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -
A/E Professional		-		-		-		-	-	-	-		-	-
Other		-		-		-		-	-	-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre	FY 18	F	18 /	FY	19	FY	20	F١	(21	F	Y 22	F	Y 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Land		-		-		-		-		-		-		-		-	-
A/E Professional		-		-		-		-		-		-		-		-	-
Other		-		-		-		-		-		-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	•	Total
Administrative	\$	79	\$ 175	\$ 8	\$ -	\$ -	\$ -	\$ -	\$	-	\$	262
A/E Professional		-	-	-	-	-	-	-		-		-
Construction		166	598	3	-	-	-	-		-		767
Contingency		-	442	-	-	-	-	-		-		442
Other		-	100	-	-	-	-	-		-		100
Total	\$	245	\$ 1,315	\$ 11	\$ -	\$ -	\$ -	\$ -	\$	-	\$	1,571

Johnston Sewer Improvements/Hartford Avenue

Project Manager: Tom Brueckner, P.E. Contractor(s): PARE Corporation Location: Johnston, RI Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	February-17	June-17	4 Months	\$248
Construction	June-17	October-17	4 Months	2,429
Total Project	February-17	October-17	8 Months	\$2,677



Photo: Aerial View Hartford Avenue in Johnston

This project is to extend the Hartford Avenue sewer approximately 5,400 feet to the area west of Route 295 to enable development within the Town of Johnston.

CIP Window	Pre	e FY 18	FY 18	FY 19	FY 20	FY 21	I	FY 22	FY 23	Post	t FY 23	Total
Summary	\$	17	\$ 2,412	\$ -	\$ -	\$ -	\$	-	\$ -	\$	-	\$ 2,429

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	FY 22	FY 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -
A/E Professional		-		-		-		-	-	-	-		-	-
Other		-		-		-		-	-	-	-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre FY 1	8	FY 18		FY 19	F١	(20	F	Y 21	F	Y 22	I	FY 23	Post	t FY 23	-	Total
Administrative	\$	55	\$-	¢	\$-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	55
Land	-		-		-		-		-		-		-		-		-
A/E Professional	1	89	-		-		-		-		-		-		-		189
Other		4	-		-		-		-		-		-		-		4
Total	\$ 2	48	\$-	\$	\$-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	248

Projected Expenditures - Construction

Cost Category	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	I	FY 22	FY 23	Pos	t FY 23	Total
Administrative	\$	17	\$ 105	\$ -	\$ -	\$ -	\$	-	\$ -	\$	-	\$ 122
A/E Professional			-	-	-	-		-	-		-	-
Construction		-	1,900	-	-	-		-	-		-	1,900
Contingency		-	402	-	-	-		-	-		-	402
Other		-	5	-	-	-		-	-		-	5
Total	\$	17	\$ 2,412	\$ -	\$ -	\$ -	\$	-	\$ -	\$	-	\$ 2,429

Field's Point Drive Interceptor Improvements

Project Manager: Tom Brueckner, P.E. Contractor(s): N/A Location: Providence, RI Project Priority: B

Total Project Duration/Cost

Project Phase	Start Date	Completion Date	Project Duration	Cost (in Thousands)
Planning	N/A	N/A	N/A	N/A
Design	September-17	April-18	6 Months	\$177
Construction	July-18	May-19	9 Months	760
Total Project	September-17	May-19	19 Months	\$937



The Field's Point Drive sewer has collapsed in one location and in several other locations the pipe is broken and will need to be repaired. In other locations the pipe is cracked and will need to be lined. These measures will restore the sewer to its original capacity.

Photo: Field's Point Drive

CIP Window	Pre	FY 18	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Pos	t FY 23	Т	otal
Summary	\$	-	\$ 177	\$ 760	\$ -	\$ -	\$ -	\$ -	\$	-	\$	937

Projected Expenditures - Planning

Cost Category	Pre	FY 18	F	Y 18	F	Y 19	F	FY 20	FY 21	FY 22	I	FY 23	Post	FY 23	Total
Administrative	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -
A/E Professional		-		-		-		-	-	-		-		-	-
Other		-		-		-		-	-	-		-		-	-
Total	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-	\$	-	\$ -

Projected Expenditures - Design

Cost Category	Pre F	Y 18	F	Y 18	FY 19	F	Y 20	F	Y 21	1	FY 22	FY 23	Post	t FY 23	٦	otal
Administrative	\$	-	\$	27	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	27
Land		-		10	-		-		-		-	-		-		10
A/E Professional		-		100	-		-		-		-	-		-		100
Other		-		40	-		-		-		-	-		-		40
Total	\$	-	\$	177	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	177

Projected Expenditures - Construction

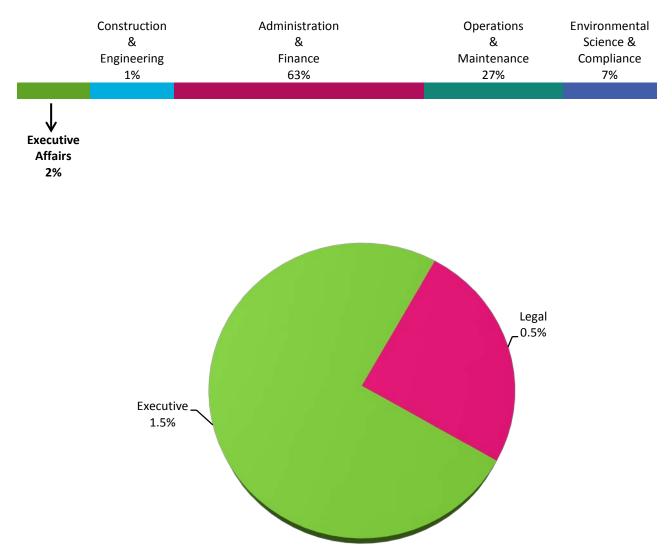
Cost Category	Pre	FY 18	F	Y 18	F	Y 19	FY 20	FY 21	I	FY 22	I	FY 23	Pos	t FY 23	 Total
Administrative	\$	-	\$	-	\$	68	\$ -	\$ -	\$	-	\$	-	\$	-	\$ 68
A/E Professional		-		-		22	-	-		-		-		-	22
Construction		-		-		600	-	-		-		-		-	600
Contingency		-		-		60	-	-		-		-		-	60
Other		-		-		10	-	-		-		-		-	10
Total	\$	-	\$	-	\$	760	\$ -	\$ -	\$	-	\$	-	\$	-	\$ 760

EXECUTIVE AFFAIRS DIVISION

Division Summary



NBC Division Budgets

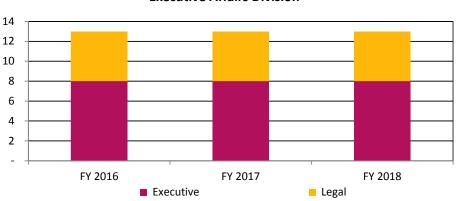


EXECUTIVE AFFAIRS DIVISION - The Program Division Summary

Purpose and Overview:

The Executive Affairs Division is responsible for Executive Affairs, Public Relations, Government Affairs, Labor/Employee Relations and Legal Services.

All of the agency divisions: Executive Affairs; Construction and Engineering; Administration and Finance; Operations and Maintenance; and Environmental Science and Compliance report directly to the Executive Director.



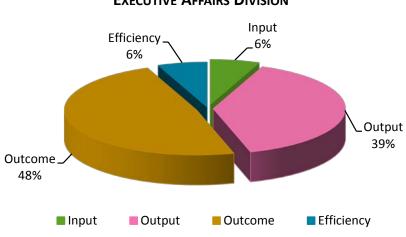
Budgeted Positions (FTEs) Executive Affairs Division

Significant Budget Modifications:

The FY 2018 Executive Affairs Division budget reflects an overall decrease of \$16,213 or 1.0% less than FY 2017 budget. Personnel increased by \$24,687 from the prior year. Operating supplies and expense and professional services have also increased by \$34,100 compared to FY 2017 as a result of increases in dues and legal fees. Operating Capital reflects a decrease of \$75,000 from the prior year.

Executive Affairs Division Performance Data Summary:

The chart below illustrates the Executive Affairs Division's Performance Data by type of measure. The measures can be found in the individual sections following this division summary. In this Division, Outcome and Efficiency make up 54% of the performance measures.

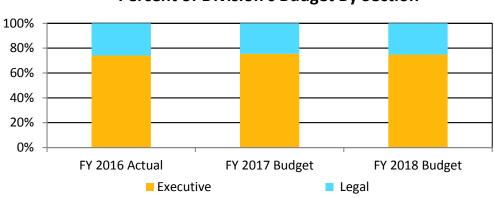


Percentage of Performance Measurement Types EXECUTIVE AFFAIRS DIVISION

EXECUTIVE AFFAIRS DIVISION - The Budget Division Summary

	FY 2	016 Actual	FY 20	017 Budget	FY 2	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,569,083	\$	1,587,473	\$	1,612,158
Less Capital Reimbursements		(143,814)		(69,228)		(69,227)
Net Personnel		1,425,269		1,518,245		1,542,931
Operating Supplies/Expense		118,475		171,075		189,675
Professional Services		31,337		100,500		116,000
Operating Capital		-		115,000		40,000
Debt Service		-		-		-
Total Expenditures	\$	1,575,081	\$	1,904,820	\$	1,888,606
Expenditures by Funding Source						
Revenue	\$	1,575,081	\$	1,789,820	\$	1,848,606
Operating Capital Transfer		-		115,000		40,000
Grant		-		-		-
Total Expenditures by Source	\$	1,575,081	\$	1,904,820	\$	1,888,606

FY 2018 Budget FY 2017 Budget FY 2017 Actual Thousands \$1,000 \$1,200 \$1,400 \$1,600 \$1,800 \$2,000 • Net Personnel Costs • Professional Services



Percent of Division's Budget By Section

EXECUTIVE - The Program

Mission and Overview:

The Executive section includes the Executive Director, Director of Executive Affairs, Public Affairs, Labor/Employee Relations and Government Affairs. The Executive section is responsible for overall agency management responsibilities, including policy development, collective bargaining negotiations, contract compliance, liaison activities with local, state and federal entities and officials, legal oversight and maintenance of a strong public information program.

Major Accomplishments FY 2017 by Key Code:

- **CB 1** Continued negotiations on RIPDES permits for both Field's Point and Bucklin Point
- **CB 1** Completed the nitrogen permit year ending October 31, 2016 with 100% compliance at Field's Point
- **CB 2** Revised the hydraulic model, completed survey work and refined alternative recommendations for preliminary design of CSO Phase III Facilities
- **CB 2** Collaborated with the State of RI and Town of Johnston officials on economic development projects that expand NBC's sewer system and revenue base
- **CB 2** Successfully defended a \$1 million + CSO Phase II construction claim in arbitration
- **FM 8** Purchased three off-site wind turbines, expanding NBC's renewable energy portfolio through net metering
- **S 5** Initiated succession planning with NBC Directors
- **C1** Held NBC's first STEM career day for high school students to promote careers in clean water science and engineering and showcased the technological leadership of the NBC
- **C1** Conducted 38 educational tours of the FPWWTF and the 3 on-site tours of the wind turbines
- **C1** The NBC Watershed Explorers visited 13 schools, and provided education to 690 students from cities and towns within NBC's service district
- **C 2** Successfully lobbied and amended renewable energy legislation that extended two deadlines for net metering; allowing NBC to move forward with its solar energy projects.

Top Priorities for FY 2018 and How They Relate to the Strategic Plan/Goals and by Key Code:

- **CB 2** Negotiate CSO Phase III Facilities Consent Agreements with RIDEM
- **CB 2** Obtain approval from RIDEM on the revised CSO Phase III Facilities Plan Conceptual Design Report and continue with design
- **S 5** Continue agency-wide succession planning

EXECUTIVE - The Budget

	FY 2	016 Actual	FY 20	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,144,381	\$	1,134,120	\$	1,157,940
Less Capital Reimbursements		(117,453)		(60,703)		(60,702)
Net Personnel		1,026,928		1,073,417		1,097,238
Operating Supplies/Expense		110,488		155,650		166,450
Professional Services		29,775		94,000		109,500
Operating Capital		-		115,000		40,000
Debt Service		-		-		-
Total Expenditures	\$	1,167,190	\$	1,438,067	\$	1,413,188
Expenditures by Funding Source			4		4	
Revenue	\$	1,167,190	\$	1,323,067	\$	1,373,188
Operating Capital Transfer		-		115,000		40,000
Grant		-		-		-
Total Expenditures by Source	\$	1,167,190	\$	1,438,067	\$	1,413,188

\$1,500,000 9 \$1,400,000 8 \$1,300,000 \$1,200,000 7 \$1,100,000 \$1,000,000 6 \$900,000 \$800,000 - 5 FY 2017 Budget FY 2018 Budget FY 2016 Actual Total Expenditures Full Time Equivalent (FTE) Positions

EXECUTIVE - Historical Data

Program Staffing (Budgeted)										
Executive Director	1.0	Government Affairs Manager	1.0							
Director of Executive Affairs	1.0	Labor and Employee Relations Manager	1.0							
Environmental Education Coordinator	1.0	Public Affairs Manager	1.0							
Executive Assistant	1.0	Public Affairs Specialist	1.0							
	8.0	FTEs								

EXECUTIVE - Performance Data

ORE BUSINESS:	-	-		and treatment systents are met or surpa
ACTION FOR ACHIEVEMENT BY				
anage the planning, design an		IBC's canital in	nrovements in th	ne most cost-effectiv
d in compliance with regulato			iprovements in ti	
A In compliance with regulato	i y requirements •			
Conduct a minimum of 9 cap	nital project meeti	ngs to undate i	managers on the	status of canital proj
Unit of Measure	FY 2016 Actual	FY 2016 Goal	-	FY 2018 Goal
Quantity	10	9	9	9
Quantity		5	5	5
stomer Focus:	Maintain c	a customer-foc	used attitude thr	oughout the organiz
ACTION FOR ACHIEVEMENT BY	KEY CODE:			
intain programs and conduct	projects that give	back to the co	mmunity • CF 1	
ARGET MEASURE:	, , , ,		,	
Grant 40 or more awards/sc	cholarships			
Unit of Measure	FY 2016 Actual	FY 2016	Goal FY 2017 G	oal FY 2018 Goal
Quantity 51 A	Awards/Scholarships	40	40	40
ARGET MEASURE:				
Conduct a minimum of 100	lessons at schools	in the NBC ser	vice area	
Unit of Measure	FY 2016 Actual	FY 2016	Goal FY 2017 G	oal FY 2018 Goal
Lessons Conducted	100	100	100	100
Participating Students	720	480	480	480
TARGET MEASURE:				
Arrange a minimum of 20 w	vater quality testin	g field trips for	local schools	
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	20	20	20	20
TARGET MEASURE:				
Ensure 100% of participating	-		-	
Unit of Measure	FY 2016 Actual	FY 2016 Goa		FY 2018 Goal
Percentage	10 Schools	100%	100%	100%
TARGET MEASURE:				
Respond to 100% of request	•	-		
Unit of Measure	FY 2016 Actual	FY 2016		
Ouentitu E71		100%	100%	100%
Quantity 57 I	Presentations/Tours			
Quantity 57	Presentations/Tours			
		act, develop a	nd retain highly q	ualified employees.
		act, develop a	nd retain highly q	ualified employees.
AFFING:	Attr	act, develop a	nd retain highly q	ualified employees.
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AFFING: ACTION FOR ACHIEVEMENT BY R ster a positive working enviro	Attr Key Code: nment through eff	ective commu		yualified employees. FY 2018 Goal

Receive the Best Places to Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Consecutive Years	6	6	7	8
ET MEASURE:				
Create NBC monthly newsl				
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Frequency Quantity - Articles	12 87	Monthly 50	Monthly 50	Monthly 50
200000				
MMUNICATION:	-	e and enhance int		
	increas	se understanding	of "who we are	" and "what we
A	K			
ACTION FOR ACHIEVEMENT BY				
tinue to expand and condu	ct NBC public outrea	acn programs • C	1	
ARGET MEASURE:	n of onco normalia	to provide aver-	t information and	NDC activity
Update website a minimur Unit of Measure	n of once per week i FY 2016 Actual	to provide curren FY 2016 Goal		NBC activity FY 2018 Goal
Frequency	52 Updates	Weekly	Weekly	Weekly
inequency	or opulles	Weekly		TO COMY
ACTION FOR ACHIEVEMENT BY	KEY CODE:			
actively manage and comm	unicate NBC's public	c and legislative a	ffairs. initiatives	and ongoing acti
ARGET MEASURE:				
Review 100% of bills introc	luced each year			
Unit of Measure	FY 2016 Actual	FY 2016 Go	al FY 2017 Goal	FY 2018 Goal
Percentage	2,470 Bills Reviewed	100%	100%	100%
Percentage	2,470 Bills Reviewed	_		
		100%	100%	
RGET MEASURE: Propose 100% of NBC relat Unit of Measure	ed legislation amen FY 2016 Actual	100% dments where ap FY 2016 Go	100% propriate	100%
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GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Conduct NBC business in an open manner • OP 1

TARGET MEASURE:

Post NBC Board and/or Committee meeting notices 48 hours prior to meeting date on RI Secretary of State website, at State Library, RI State House, and NBC facilities. Post all draft/approved meeting minutes within 35 days on RI Secretary of State website

Unit of Measure	FY 2016 Actual	_	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Meeting Notices Within 48 Hours Prior to Meeting	<48 hours		<48 hours	<48 hours	<48 hours
Draft Minutes Within 35 Days of Meeting	<35 days		<35 days	<35 days	<35 days
Approved Minutes Within 35 Days of Approval	<35 days		<35 days	<35 days	<35 days

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Promote diversity in hiring practices • OP 2

TARGET MEASURE:

Submit affirmative action plan to the Equal Employment Opportunity Commission by due date

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Due Date	8/1/2015	8/1/2015	8/1/2016	8/1/2017

DIVISION SUMMARIES

LEGAL - The Program

Mission and Overview:

The Legal section provides prompt and accurate legal advice to agency staff with regard to issues that arise in the course of NBC's business activities. NBC's legal staff has expertise in environmental, contractual, corporate, legislative, real estate, collections and bankruptcy law. Outside legal sources are used to supplement in-house expertise as needed.

Major Accomplishments FY 2017 by Key Code:

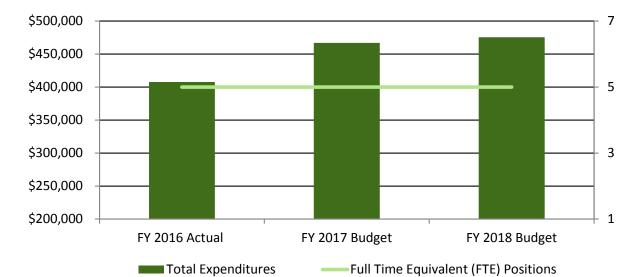
- **CB 1** Assisted Pretreatment with all legal aspects related to the Pretreatment Program
- **CB 2** Assisted Construction and Engineering with legal aspects of Field's Point Biological Nutrient Removal and CSO Phase II Facilities projects
- **CB 2** Assisted Engineering with legal and regulatory aspects of CSO Phase III Facilities projects
- **FM 3** Conducted one lien sale which resulted in the collection of approximately \$500,000
- **CF 2** Responded to all public records requests within statutory timeframe, to the appropriate Rhode Island agencies/parties
- **C2** Reviewed, analyzed and opined on pending legislation
- **OP 3** Filed all compliance filings (ethics, disclosure of government consultants, regulatory reform agenda, and public records training compliance) within the required timeframe

Top Priorities for FY 2018 and How They Relate to the Strategic Plan/Goals and by Key Code:

- **CB1** Assist Construction and Engineering with legal aspects of Field's Point and Bucklin Point RIPDES Permits CSO Phase III Consent Decrees
- FM 3 Conduct two lien sales to collect past due customer accounts and reduce accounts receivable
- **FM 3** Monitor customer accounts subject to the US Bankruptcy Code/RI Receivership Petitions, including filing proof of claims within the required timeframes

LEGAL - The Budget

	FY 20)16 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense						
Personnel	\$	424,702	\$	453,353	\$	454,218
Less Capital Reimbursements		(26,361)		(8,525)		(8,525)
Net Personnel		398,341		444,828		445,693
Operating Supplies/Expense		7,988		15,425		23,225
Professional Services		1,562		6,500		6,500
Operating Capital		-		-		-
Debt Service		-		-		-
Total Expenditures	\$	407,891	\$	466,753	\$	475,418
Expenditures by Funding Source						
Revenue	\$	407,891	\$	466,753	\$	475,418
Operating Capital Transfer		-		-		-
Grant		-		-		-
Total Expenditures by Source	\$	407,891	\$	466,753	\$	475,418



LEGAL - Historical Data	LEGAL	Hist	orical	Data
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	PROGRAM STAFFING (BUDGETED)						
Chief Legal Counsel	1.0	Executive Paralegal II	1.0				
Executive Paralegal	1.0	Legal Counsel	2.0				
	5.0	FTEs					

LEGAL - Performance Data

			ain and protect I State and Fede			-
DAL ACTION FOR ACHIEVEMEN		•				
Ensure compliance with all			ons nermits cor	sent agreemen	ts cortificatio	ons NRC
regulations and reporting r		-		isent ugi centen		, NDC
TARGET MEASURE:	646	•••				
Issue Enforcement Acti	ions within tv	vo weeks of re	equest			
Unit of Measure	FY 2016		FY 2016 Goal	FY 2017 Goal	FY 2018 Go	al
Percentage	3 Enforceme	ent Actions	100%	100%	100%	
FINANCIAL MANAGEMENT:		Manage N	IBC's finances th	rough strong f	inancial planı	ning and
		contr	ols such that sev	ver user charge	es are minimiz	zed.
Target Measure: Conduct a minimum of	f 2 lien sales a	nnually				
Unit of Measu	ure FY 2016	Actual F			Y 2018 Goal	
Frequency	2 Lien	Sales	2	2	2	
TARGET MEASURE:						
Ensure at least 65% of		•		V 2017 Carl I		
Ensure at least 65% of Unit of Measu	ure FY 2016	Actual F	Y 2016 Goal F		TY 2018 Goal	
Ensure at least 65% of <u>Unit of Measu</u> Percentage	ure FY 2016	Actual F		Y 2017 Goal I 65%	FY 2018 Goal 65%	
Ensure at least 65% of Unit of Measu Percentage TARGET MEASURE:	ure FY 2016 90	Actual F	FY 2016 Goal F 65%	65%		
Ensure at least 65% of <u>Unit of Measu</u> Percentage Target Measure: Monitor 100% of bank	ruptcies and f	Actual F %	Y 2016 Goal F 65% aims where appr	65% ropriate	65%	118 Goal
Ensure at least 65% of <u>Unit of Measu</u> Percentage TARGET MEASURE: Monitor 100% of banku Unit of Measu	ruptcies and f	Actual F % ile proof of cla FY 2016 Actu	FY 2016 Goal F 65% aims where appr ral FY 2016	65% ropriate Goal FY 2017	65% ' Goal FY 20	018 Goal
Ensure at least 65% of Unit of Measu Percentage TARGET MEASURE: Monitor 100% of banku Unit of Measu Flagged Bankruptcies/Pro	ruptcies and f ruptcies and f roof of Claims	Actual F %	Y 2016 Goal F 65% aims where appr	65% ropriate Goal FY 2017 % 100	65% 7 Goal FY 20 % 1	118 Goal 00% 00%
Ensure at least 65% of <u>Unit of Measu</u> Percentage Target Measure: Monitor 100% of banku <u>Unit of Measu</u>	ruptcies and f ruptcies and f roof of Claims	Actual F % ile proof of cla FY 2016 Actu 129	Y 2016 Goal F 65% 65% aims where approximate FY 2016 100% 100%	65% ropriate Goal FY 2017 % 100	65% 7 Goal FY 20 % 1	00%
Ensure at least 65% of Unit of Measu Percentage TARGET MEASURE: Monitor 100% of banku Unit of Measu Flagged Bankruptcies/Pro	ruptcies and f ruptcies and f roof of Claims	ActualF%-ile proof of claFY 2016 Actu129129	Y 2016 Goal F 65% 65% aims where approximate FY 2016 100% 100%	65% ropriate Goal FY 2017 % 100 % 100	65% 7 Goal FY 20 % 1 % 1	00% 00%

JUAL ACTION FOR ACHIEVENIENT BY REY CODE:

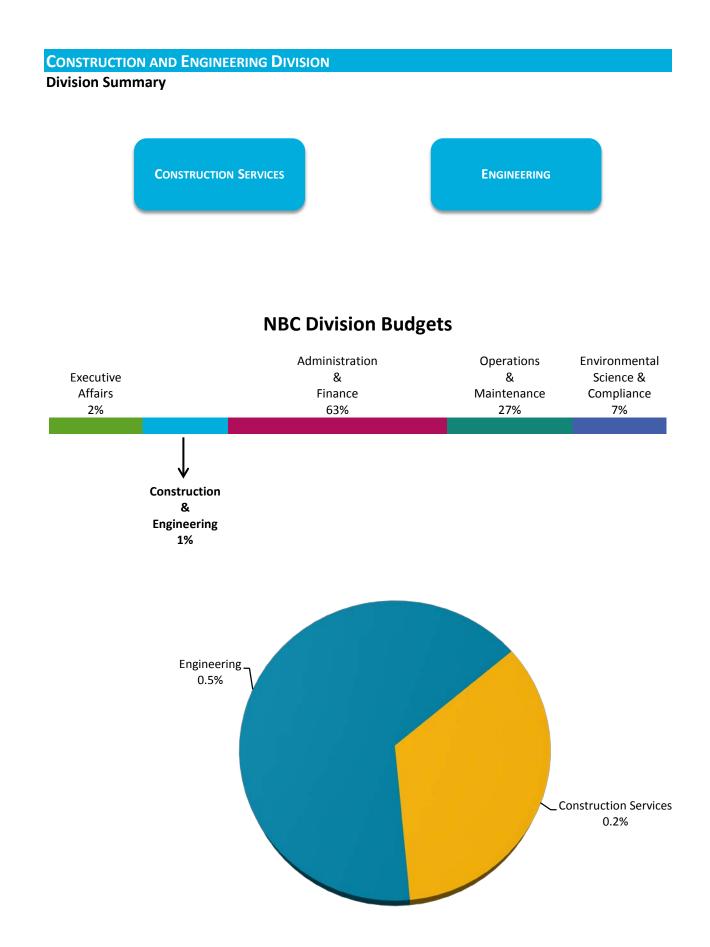
Provide prompt, courteous, efficient and educational services \bullet CF 2

TARGET MEASURE:

Maintain APRA Certification and respond to all public records requests within 30 days

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Certifications	4	4	4	4
Request Response Time	7 Days	≤30 days	≤30 days	≤30 days
Number of Responses	7 Responses	100%	100%	100%

Staffing:	Attı	ract, develop and	retain highly q	ualified employees.
DAL ACTION FOR ACHIEVEMENT E				
Provide professional, technica	-	ing to optimize te	am performanc	e and ensure user comf
with systems and processes •	S 3			
TARGET MEASURE:				
Provide a minimum of 30	-			
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Hours	30	40	30	30
COMMUNICATION:	Impro	ve and enhance i	nternal and ext	ernal communication to
COMMUNICATION:				ire" and "what we do".
	incre	use understunum	goj who we u	
OAL ACTION FOR ACHIEVEMENT E				
Strengthen and expand NBC's		ith key stakehold	ers (clistomers	Board elected officials/
delegates, regulatory officials	-			
TARGET MEASURE:		isure support of i	120 5 111551011 0	
Conduct/coordinate a mi	nimum of 2 presenta	tions		
Unit of Measure	•	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	2	2	2	2
Quantity	2	2	2	2
			_	2 ned with and supports o
			_	ned with and supports o
			nization is alig	ned with and supports o
ORGANIZATIONAL PERFORMAN	ICE: Ensure t		nization is alig	ned with and supports o
ORGANIZATIONAL PERFORMAN	ICE: Ensure t	- hat the NBC orgo	nization is aligi strategic goals	ned with and supports c
Quantity ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE:	ICE: Ensure t	- hat the NBC orgo	nization is aligi strategic goals	ned with and supports c
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State	ICE: Ensure t BY KEY CODE: e ethics, regulatory ag	hat the NBC orga genda filing and d	nization is align strategic goals	ned with and supports of . sultants requirements •
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE:	ICE: Ensure t BY KEY CODE: e ethics, regulatory ag	hat the NBC orga genda filing and d	nization is align strategic goals	ned with and supports of . sultants requirements •
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict	ICE: Ensure to the second seco	hat the NBC orga genda filing and d NBC staff/Board (nization is align strategic goals isclosure of con of Commissione	ned with and supports of a support of a supp
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict Unit of Measure	ICE: Ensure to the second seco	hat the NBC orga genda filing and d NBC staff/Board (FY 2016 Goa l	nization is aligi strategic goals isclosure of con of Commissione FY 2017 Goal	ned with and supports of sultants requirements •
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict Unit of Measure Percentage	ACE: Ensure to BY KEY CODE: The ethics, regulatory ago of interest forms for FY 2016 Actual 3 Forms Executed	hat the NBC orgo genda filing and d NBC staff/Board o FY 2016 Goal 100%	nization is aligi strategic goals isclosure of con of Commissione FY 2017 Goal	ned with and supports of sultants requirements •
ORGANIZATIONAL PERFORMAN DAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict Unit of Measure Percentage TARGET MEASURE:	ACE: Ensure to BY KEY CODE: e ethics, regulatory ag of interest forms for FY 2016 Actual 3 Forms Executed ry agenda bi-annually	hat the NBC orgo genda filing and d NBC staff/Board o FY 2016 Goal 100%	nization is aligi strategic goals isclosure of con of Commissione FY 2017 Goal	ned with and supports of sultants requirements •
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict Unit of Measure Percentage TARGET MEASURE: Prepare and file regulato	ACE: Ensure to BY KEY CODE: e ethics, regulatory ag of interest forms for FY 2016 Actual 3 Forms Executed ry agenda bi-annually	hat the NBC organ genda filing and d NBC staff/Board o FY 2016 Goal 100%	nization is align strategic goals isclosure of con of Commissione FY 2017 Goal 100%	ned with and supports of . sultants requirements • rs <u>FY 2018 Goal</u> 100%
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict Unit of Measure Percentage TARGET MEASURE: Prepare and file regulato Unit of Measure	ACE: Ensure to BY KEY CODE: e ethics, regulatory ag of interest forms for FY 2016 Actual 3 Forms Executed ry agenda bi-annually FY 2016 Actual	hat the NBC organs genda filing and d NBC staff/Board of FY 2016 Goal	nization is align strategic goals isclosure of con of Commissione FY 2017 Goal 100%	ned with and supports of . sultants requirements • rrs <u>FY 2018 Goal</u> 100%
ORGANIZATIONAL PERFORMAN OAL ACTION FOR ACHIEVEMENT E Ensure compliance with State TARGET MEASURE: Execute 100% of conflict Unit of Measure Percentage TARGET MEASURE: Prepare and file regulato Unit of Measure Frequency	ACE: Ensure to BY KEY CODE: e ethics, regulatory ag of interest forms for FY 2016 Actual 3 Forms Executed ry agenda bi-annually FY 2016 Actual	hat the NBC organs genda filing and d NBC staff/Board of FY 2016 Goal	nization is align strategic goals isclosure of con of Commissione FY 2017 Goal 100%	ned with and supports of . sultants requirements • rrs <u>FY 2018 Goal</u> 100%

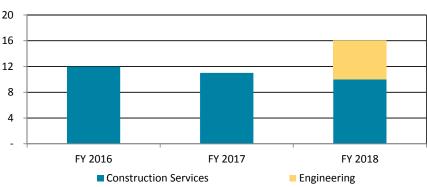


DIVISION SUMMARIES

CONSTRUCTION AND ENGINEERING DIVISION - The Program Division Summary

Purpose and Overview:

The Construction and Engineering Division is responsible for the planning, design and construction of capital improvements necessary to comply with regulatory requirements, take advantage of technological advancements, ensure the integrity of NBC's infrastructure and achieve operational efficiencies. These improvements represent construction of new facilities, rehabilitation and replacement of existing infrastructure as well as incorporating the needs identified through NBC's Asset Management Program. This Division also provides facilities engineering services for the entire NBC campus. This Division includes Construction Services and Engineering.



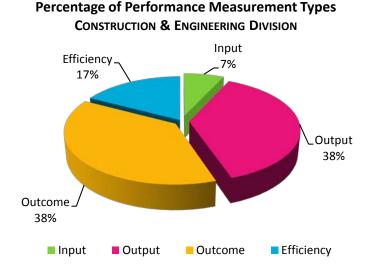
Budgeted Positions (FTEs) CONSTRUCTION & ENGINEERING DIVISION

Significant Budget Modifications:

The FY 2018 Construction and Engineering Division budget is a total of \$284,674 or 76.3% higher than the FY 2017 Construction Services Division budget. This reflects the organizational changes and the creation of cost center 25, Engineering, which is now part of this Division. As a result, personnel increased by \$215,149; Operating supplies and expense and professional services increased by \$36,025 and Operating Capital has increased by \$30,000 compared to FY 2017.

Construction and Engineering Division Performance Data Summary:

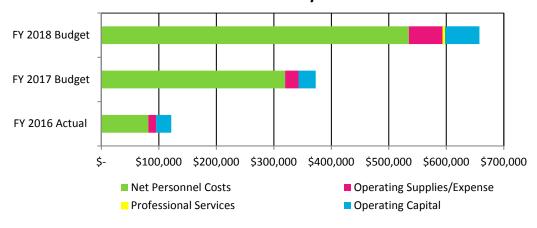
The chart below illustrates the Construction and Engineering Division's Performance Data by type of measure. The measures can be found in the individual sections following this division summary. In this Division, Outcome and Efficiency make up 55% of the performance measures.

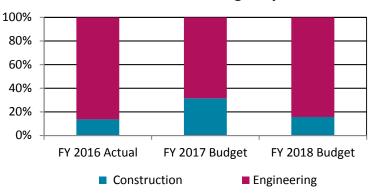


CONSTRUCTION AND ENGINEERING DIVISION - The Budget Division Summary

	FY 2	2016 Actual	FY 2	017 Budget	FY 2	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,236,322	\$	1,325,704	\$	1,962,340
Less Capital Reimbursements		(1,154,626)		(1,005,969)		(1,427,456)
Net Personnel		81,696		319,735		534,884
Operating Supplies/Expense		13,579		23,225		59,250
Professional Services		-		-		3,500
Operating Capital		26,366		30,000		60,000
Debt Service		-		-		-
Total Expenditures	\$	121,641	\$	372,960	\$	657,634
Expenditures by Funding Source						
Revenue	\$	95,275	\$	342,960	\$	597,634
Operating Capital Transfer		26,366		30,000		60,000
Grant		-		-		-
Total Expenditures by Source	\$	121,641	\$	372,960	\$	657,634

Division's Cost By Element





Percent of Division's Budget by Section

CONSTRUCTION SERVICES - The Program

Mission and Overview:

The Construction Services section is responsible for overseeing construction of capital improvement projects related to NBC's collection system and wastewater treatment facilities. Improvements to NBC's infrastructure are necessary to ensure proper collection and treatment of wastewater and storm water flows that enter NBC's Collection System.

Major Accomplishments FY 2017 by Key Code:

- **CB 2** Managed the emergency contract for installation of backup blowers for the aeration system at the FPWWTF
- **CB 2** Completed the in-house design, bidding and award of the following projects:

FPWWTF Final Clarifier Improvements (Project 13000)

NBC Interceptor Easement Restoration, Abbott Valley Interceptor (Project 30438)

NBC East Providence Interceptor Improvements (Project 30462)

NBC Interceptor Improvements FY 17 (Project 30463)

Omega Pump Station Improvements (Project 70800)

BPWWTF Flood Protection (Project 81300)

BPWWTF Digester Gas Piping Replacement (Project 81400)

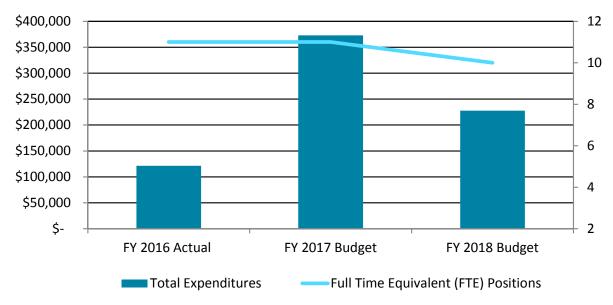
- **CB 2** Closed out the CSO Phase II Facilities construction contracts
- **CB 2** Completed the construction of the Water Quality Science Building
- **CB 2** Successfully defended NBC from a significant claim in arbitration

Top Priorities for FY 2018 and How They Relate to the Strategic Plan/Goals and by Key Code:

- CB 2 Put out to bid and begin construction for Phase II of the FPWWTF Blower Improvements
- CB 2 Assist with design of the CSO Phase III Facilities

CONSTRUCTION SERVICES - The Budget

	FY 2	2016 Actual	FY 2	017 Budget	FY 2	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,236,322	\$	1,325,704	\$	1,292,034
Less Capital Reimbursements		(1,154,626)		(1,005,969)		(1,116,724)
Net Personnel		81,696		319,735		175,310
Operating Supplies/Expense		13,579		23,225		22,325
Professional Services		-		-		-
Operating Capital		26,366		30,000		30,000
Debt Service		-		-		-
Total Expenditures	\$	121,641	\$	372,960	\$	227,635
Expenditures by Funding Source						
Revenue	\$	95,275	\$	342,960	\$	197,635
Operating Capital Transfer		26,366		30,000		30,000
Grant		-		-		-
Total Expenditures by Source	\$	121,641	\$	372,960	\$	227,635



CONSTRUCTION SERVICES - Historical Data

PROGRAM STAFFING (BUDGETED)					
Director of Construction and Engineering	1.0	Engineering Construction Coordinator	1.0		
Construction Manager	1.0	Mechanical Inspector	1.0		
Construction Office Coordinator	1.0	Resident Representative	3.0		
CSO Construction Manager	1.0	Senior Construction Coordinator	1.0		
	10.0) FTEs			

CONSTRUCTION SERVICES - Performance Data

DRE BUSINESS:	-		-		n and treatment s ents are met or su
ALACTION FOR ACHIEVEMENT B					
lanage the planning, design a		NBC's	capital impro	ovements in th	e most cost-effect
nd in compliance with regula					
TARGET MEASURE:	tory requirements	002			
Resident engineering cost	is 15% or less of cor	nstruct	tion cost (no	n-CSO contract	·c)
Unit of Measure	FY 2016 Actual		2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	11.53%		≤15%	≤15%	≤15%
TARGET MEASURE:	11.00/0			_10/0	
Contract cost is less than	8% higher than origi	nal hic	l amount on	an annual hasi	ç
Unit of Measure	FY 2016 Actual		2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	4.78%		≤8%	≤8%	≤8%
TARGET MEASURE:					
85% of CIP contracts com	oleted within six mo	nths o	f master sch	edule	
Unit of Measure	FY 2016 Actual		2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	85%		85%	85%	85%
TARGET MEASURE:					
Receive 100% WBE, MBE	and FFO plans for ar	prova	l prior to aw	ard of contract	
Unit of Measure	FY 2016 Actual	•		FY 2017 Goal	FY 2018 Goal
Percentage	4 Plans		100%	100%	100%
TARGET MEASURE:					
Collect, review and maint	ain certified payrolls				
Unit of Measure	FY 2016 Actual		2016 Goal	FY 2017 Goal	FY 2018 Goal
Frequency	12	Ν	Aonthly	Monthly	Monthly
TARGET MEASURE:					
Process 100% of Change (Drders				
Unit of Measure	FY 2016 Actual	FY	2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	9 Change Orders		100%	100%	100%
TARGET MEASURE:					
Ensure all Awards of Cont	racts are presented	to the	Board for Ap	oproval	
Unit of Measure	FY 2016 Actual	FY 2	2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	4 Contracts		100%	100%	100%
TARGET MEASURE:					
Conduct weekly meetings	with all contractors	for ac	tive ongoing	projects.	
Unit of Measure	FY 2016 Actual	FY 2	2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	52		52	52	52
TARGET MEASURE:					
Apply for and receive a Ce	• •		•	-	
Unit of Measure	FY 2016 Actual	FY		FY 2017 Goal	FY 2018 Goal
Percentage	4 COAs		100%	100%	100%
TARGET MEASURE:					
Comply with MBE/WBE q					
Unit of Measure	FY 2016 Actual	FY		FY 2017 Goal	FY 2018 Goal
Frequency	4		4	4	4
TARGET MEASURE:					
Develop 100% of contract		ions b			_
Unit of Measure	FY 2016 Actual	_	FY 2016 Go		
-	2 Plans/Specifications		100%	100%	100%
TARGET MEASURE:					
Review constructability ar		esign s			
Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goa	al FY 2018 Goal
Percentage	1 Design Specifications		100%	100%	100%

such that sewe and processed in al invoices FY 2016 Goal 100%	r user charges a a timely, efficie FY 2017 Goal 100%	ncial planning and are minimized. ent and cost effecti FY 2018 Goal 100%	ve manne
al invoices FY 2016 Goal 100%	FY 2017 Goal 100% er-focused attit	FY 2018 Goal 100%	
al invoices FY 2016 Goal 100%	FY 2017 Goal 100% er-focused attit	FY 2018 Goal 100%	
al invoices FY 2016 Goal 100%	FY 2017 Goal 100% er-focused attit	FY 2018 Goal 100%	
FY 2016 Goal	100% er-focused attit	100%	the
FY 2016 Goal	100% er-focused attit	100%	the
FY 2016 Goal	100% er-focused attit	100%	the
100%	100% er-focused attit	100%	the
ntain a custome	er-focused attil		the
	-	tude throughout	the
	-	tude throughout	the
	-	j i i	
	y		
CF 5			
re presented to t	he Board for app	proval	
FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
100%	100%	100%	
tract, develop an	d retain highly q	ualified employed	25.
ng to optimize te	am performance	e and ensure user	comfort
FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
FY 2016 Goal 100	FY 2017 Goal	FY 2018 Goal 100	
100	100	100	
100 e and enhance in	100 Iternal and exte	100 ernal communicati	
100 e and enhance in	100 Iternal and exte	100	
100 e and enhance in	100 Iternal and exte	100 ernal communicati	
100 e and enhance ir ise understanding	100 hternal and exte g of "who we ar	100 ernal communicati re" and "what we a	
100 e and enhance in	100 hternal and exte g of "who we ar	100 ernal communicati re" and "what we a	
100 e and enhance in se understanding to NBC staff and	100 nternal and exte g of "who we ar Board members	100 ernal communicati re" and "what we • C 3	
100 e and enhance in se understanding to NBC staff and	100 nternal and exte g of "who we ar Board members	100 ernal communicati re" and "what we a	
100 e and enhance in se understanding to NBC staff and	100 nternal and exte g of "who we ar Board members	100 ernal communicati re" and "what we • C 3	
	FY 2016 Goal 100%	FY 2016 GoalFY 2017 Goal100%100%ract, develop and retain highly q	

ENGINEERING - The Program

Mission and Overview:

The primary responsibility of the Engineering section is to plan and design facilities, necessary for the collection and treatment of wastewater within NBC's service area and the issuance of sewer connection permits. Projects are identified in the NBC's five-year Capital Improvement Plan. The types of capital projects designed by the Engineering section include CSO facilities, improvements to the wastewater treatment facilities, sewer system improvement projects and CSO interceptor repair and construction projects. The Engineering section also provides facilities engineering services for the FPWWTF and BPWWTF.

Major Accomplishments FY 2017 by Key Code:

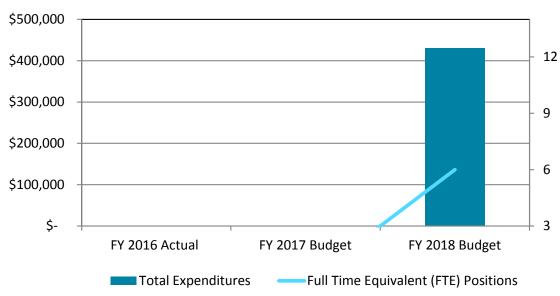
- **CB 2** Completed the construction phase for the Omega Pump Station (Project 70800)
- **CB 2** Completed the evaluation of Lab Building reuse options (Project 12900)
- **CB 2** Completed the design of the Moshassuck Valley Interceptor (Project 30444)
- **CB 2** Completed design for the Providence River Siphon (Project 30457)
- **CB 2** Completed design of the interceptor easements at BVI (Project 30501)
- **CB 2** Completed optimization, survey, the preliminary geological investigation and updated the sewer model for Phase III
- **CB 2** Completed the BVI inspection and cleaning (Project 30474)
- **CB 2** Completed the Design for the Seekonk Siphon Structure rehabilitation (Project 30457)
- **CB 2** Completed Design for the Johnston Sewer Improvement Project (Project 30460)
- CF 5 Issued 232 sewer connection permits

Top Priorities for FY 2018 and How They Relate to the Strategic Plan/Goals and by Key Code:

- **CB 2** Begin design of Phase A of the CSO Phase III Program
- **CB 2** Initiate design of the Lab Building Reuse Project
- **CB 2** Initiate the planning phase for a new Maintenance building at Field's Point and Service building and electrical upgrades at Bucklin Point
- **CB 5** Continue to improve the on-line sewer permit file process for sewer connection and stormwater permits

ENGINEERING - The Budget

	FY 2016 Actual	FY 2017 Budget	FY 20	18 Budget
Expenditures by Element of Expense				
Personnel	N/A	N/A	\$	670,306
Less Capital Reimbursements	N/A	N/A		(310,731)
Net Personnel	N/A	N/A		359,575
Operating Supplies/Expense	N/A	N/A		36,925
Professional Services	N/A	N/A		3,500
Operating Capital	N/A	N/A		30,000
Debt Service	N/A	N/A		-
Total Expenditures	N/A	N/A	\$	430,000
Expenditures by Funding Source	N/A	N/A		
Revenue	N/A	N/A	\$	400,000
Operating Capital Transfer	N/A	N/A		30,000
Grant	N/A	N/A		-
Total Expenditures by Source	N/A	N/A	\$	430,000



ENGINEERING - Historical Data

PROGRAM STAFFING (BUDGETED)					
Engineering Manager	1.0	Permits Coordinator	1.0		
Environmental Engineer	1.0	Principal Environmental Engineer	2.0		
Facilities Engineer	1.0				
	6.0	FTEs			

ENGINEERING - Performance Data

CORE BUSINESS:	Operate, maintain and protect our collection and treatment systems to
	ensure that all State and Federal requirements are met or surpassed.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Ensure compliance with all State and Federal regulations, permits, consent agreements, certifications, NBC regulations and reporting requirements • CB 1

TARGET MEASURE:

Prepare annual stormwater inspection report for both WWTF's

_	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Field's Point Due Date	10/18/2015	12/30/2015	12/30/2016	12/30/2017
	Bucklin Point Due Date	10/19/2015	12/30/2015	12/30/2016	12/30/2017
-	-				

TARGET MEASURE:

Renewal of RIPDES stormwater permits per RIDEM requirements within 30 days of notice

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Timeframe	Renewal not required	Within 30 days	Within 30 days	Within 30 days	

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Manage the planning, design and construction of NBC's capital improvements in the most cost-effective manner and in compliance with regulatory requirements • CB 2

TARGET MEASURE:

Complete projects to ensure integrity of NBC's infrastructures and achieve operating efficiencies

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Nutrient Removal	No Projects	No Projects	1	1
Sewer Collection System	3	4	2	1
Phase III Combined Sewer Overflow	0	1	1	2
WWTF Improvements	0	0	3	4

TARGET MEASURE:

Planning and design contract expense is $\leq 10\%$ of approved contract

	Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal			
	Percentage	100%		100%	100%	100%			
TARGET ME	TARGET MEASURE:								
Record 2	100% of file easem	ents for projects							
	Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal			
	enneenneesene	TT E010 / tetual							

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Maximize efficiency through service automation, applications security and NBC campus security • CB 4 TARGET MEASURE:

Update NBC's GIS database and application software

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Database Updates	100%	100%	100%	100%
Software Updates	100%	100%	100%	100%

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Maintain NBC's asset management program for infrastructure and assets, ensure integrity and maximize the investment • CB 5

TARGET MEASURE:

Perform required facility inspections

Unit	of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Mechan	ical Equipment	5 Inspections	100%	100%	100%

IANCIAL BAANACENENT.					
NANCIAL MANAGEMENT:	Manag		-	ough strong finan er user charges ar	cial planning and co e minimized
			such that sew	er user enarges ur	e minimizeu.
AL ACTION FOR ACHIEVEMENT E	BY KEY CODE:				
laximize the efficiency, effect	ctiveness, and ac	curacy	of NBC's rate	structures and co	llection processes to
ccounts receivable • FM 3					
TARGET MEASURE:					
Collect 100% of Permit Fe	ees				
Unit of Measure	FY 2016 Actua	1	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	\$108,835		100%	100%	100%
CUSTOMER FOCUS:	Main	ntain a	customer-foc	used attitude thro	oughout the organiza
AL ACTION FOR ACHIEVEMENT E					
Aaximize customer focus att			llent custome	r service and deve	loning strong custom
elationships • CF 4					
TARGET MEASURE:					
Issue Sewer and Stormwa	ater Connection I	Permit	s within 10 bu	siness davs	
	2016 Actual		2016 Goal	FY 2017 Goal	FY 2018 Goal
Timeframe 7 E	Business Days	≤10 I	Business Days	≤10 Business Days	≤10 Business Days
TARGET MEASURE:					
Issue Sewer Alteration Pe	ermits within 10 l	busine	ss days		
Unit of Measure FY	2016 Actual	FY	2016 Goal	FY 2017 Goal	FY 2018 Goal
Timeframe 7 E	Business Days	≤10	Business Days	≤10 Business Days	≤10 Business Days
TARGET MEASURE:					
Provide customer service					
Unit of Measure	FY 2016 Actua	1	FY 2016 Goa	FY 2017 Goal	FY 2018 Goal
		1			FY 2018 Goal 100%
Unit of Measure Percentage	FY 2016 Actua	l nts	FY 2016 Goa	l FY 2017 Goal 100%	100%
Unit of Measure Percentage	FY 2016 Actua	l nts	FY 2016 Goa	l FY 2017 Goal 100%	
Unit of Measure	FY 2016 Actua	l nts	FY 2016 Goa	l FY 2017 Goal 100%	100%
Unit of Measure Percentage	FY 2016 Actua 232 New Accour	l nts	FY 2016 Goa	l FY 2017 Goal 100%	100%
Unit of Measure Percentage	FY 2016 Actua 232 New Accour BY KEY CODE:	l nts Attra	FY 2016 Goa 100% ct, develop an	l FY 2017 Goal 100% d retain highly qu	100% Palified employees.
Unit of Measure Percentage	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t	l nts Attra	FY 2016 Goa 100% ct, develop an	l FY 2017 Goal 100% d retain highly qu	100% Palified employees.
Unit of Measure Percentage TAFFING: AL ACTION FOR ACHIEVEMENT E Provide professional, technica vith systems and processes • TARGET MEASURE:	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t 5 3	I nts Attra	FY 2016 Goa 100% <i>ct, develop an</i> g to optimize t	l FY 2017 Goal 100% d retain highly qu	100% Palified employees.
Unit of Measure Percentage TAFFING: AL ACTION FOR ACHIEVEMENT E Provide professional, technica vith systems and processes • TARGET MEASURE: Attend a minimum of 1 p	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t > S 3 rofessional traini	I nts Attra trainin	FY 2016 Goa 100% ct, develop an g to optimize t	I FY 2017 Goal 100% Id retain highly qu	100% alified employees.
Unit of Measure Percentage	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t o S 3 professional traini FY 2016 Actua	I nts Attra trainin	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal	I FY 2017 Goal 100% Id retain highly qu eam performance FY 2017 Goal	100% Palified employees. and ensure user con
Unit of Measure Percentage TAFFING: AL ACTION FOR ACHIEVEMENT E Provide professional, technica vith systems and processes • TARGET MEASURE: Attend a minimum of 1 p	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t > S 3 rofessional traini	I nts Attra trainin	FY 2016 Goa 100% ct, develop an g to optimize t	I FY 2017 Goal 100% Id retain highly qu	100% alified employees.
Unit of Measure Percentage	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t 5 S 3 professional traini FY 2016 Actua 1	I Attra trainin ing ses	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1	100% Palified employees. and ensure user con
Unit of Measure Percentage	FY 2016 Actua 232 New Accour 37 KEY CODE: al and/or safety t 5 S 3 rofessional traini FY 2016 Actua 1	I Attra trainin ing ses I	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern	100% Palified employees. The and ensure user con FY 2018 Goal
Unit of Measure Percentage	FY 2016 Actua 232 New Accour 37 KEY CODE: al and/or safety t 5 S 3 rofessional traini FY 2016 Actua 1	I Attra trainin ing ses I	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern	100% Palified employees. The and ensure user con FY 2018 Goal 1
Unit of Measure Percentage	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety t 5 3 rofessional traini FY 2016 Actua 1 <i>Imp</i> <i>inc</i>	I Attra trainin ing ses I	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern	100% Palified employees. The and ensure user con FY 2018 Goal 1
Unit of Measure Percentage	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety to 5 S 3 professional traini FY 2016 Actua 1 Impino BY KEY CODE:	I Attra trainin ing ses I orove o crease	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in understandin	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern g of "who we are	100% Palified employees. The and ensure user con FY 2018 Goal 1 The and munication to and "what we do".
Unit of Measure Percentage TAFFING: AL ACTION FOR ACHIEVEMENT E Provide professional, technica vith systems and processes • TARGET MEASURE: Attend a minimum of 1 p Unit of Measure Sessions	FY 2016 Actua 232 New Accour BY KEY CODE: al and/or safety to 5 S 3 professional traini FY 2016 Actua 1 Impino BY KEY CODE:	I Attra trainin ing ses I orove o crease	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in understandin	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern g of "who we are	100% Palified employees. The and ensure user con FY 2018 Goal 1 The and munication to and "what we do".
Unit of Measure Percentage TAFFING: AL ACTION FOR ACHIEVEMENT E Provide professional, technica vith systems and processes • TARGET MEASURE: Attend a minimum of 1 p Unit of Measure Sessions COMMUNICATION: AL ACTION FOR ACHIEVEMENT E Effectively communicate state TARGET MEASURE:	FY 2016 Actua 232 New Accour 37 KEY CODE: al and/or safety t 5 S 3 rofessional traini FY 2016 Actua 1 Imp ind 39 KEY CODE: us of capital proje	I Attra trainin ing ses I orove o crease	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in understandin	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern g of "who we are	100% Palified employees. The and ensure user con FY 2018 Goal 1 The and munication to and "what we do".
Unit of Measure Percentage TAFFING: AL ACTION FOR ACHIEVEMENT E Provide professional, technica vith systems and processes • TARGET MEASURE: Attend a minimum of 1 p Unit of Measure Sessions COMMUNICATION: AL ACTION FOR ACHIEVEMENT E	FY 2016 Actua 232 New Accour 37 KEY CODE: al and/or safety t 5 S 3 rofessional traini FY 2016 Actua 1 <i>Imp</i> inc BY KEY CODE: us of capital proj project meetings	I Attra trainin ing ses I orove o crease ects to	FY 2016 Goa 100% ct, develop an g to optimize t ssion per year FY 2016 Goal 1 and enhance in understandin	I FY 2017 Goal 100% Id retain highly qu ream performance FY 2017 Goal 1 nternal and extern g of "who we are	100% Palified employees. The and ensure user con FY 2018 Goal 1 The and munication to and "what we do".

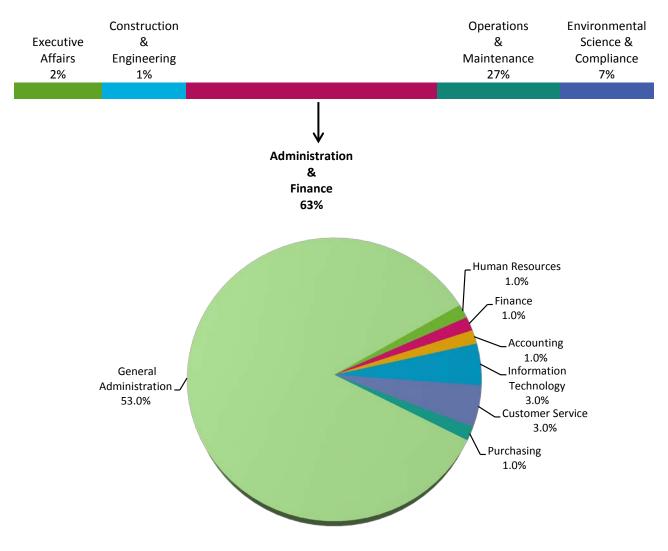


ADMINISTRATION AND FINANCE DIVISION

Division Summary



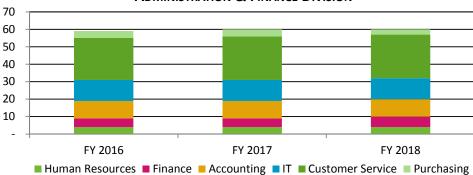
NBC Division Budgets



ADMINISTRATION & FINANCE DIVISION - The Program Division Summary

Purpose and Overview:

The Administration and Finance Division is responsible for the Finance, Cash Management, Payroll, Employee Benefits, Accounting, Customer Service, Purchasing, Human Resources and Information Technology (IT) functions at NBC. This Division is responsible for providing sound financial leadership and support to all areas of NBC, and for the production of monthly financial statements in accordance with "Generally Accepted Accounting Principles". The Division is also responsible for the issuance of long-term debt, rate filings, the administration of the retirement plans, and ensuring compliance with applicable state and federal laws, rules and regulations.



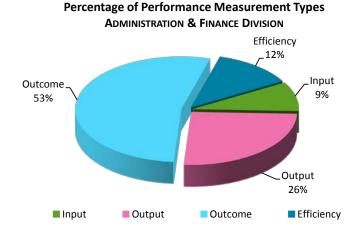
Budgeted Positions (FTEs) ADMINISTRATION & FINANCE DIVISION

Significant Budget Modifications:

The FY 2018 Administration and Finance Division budget is approximately \$2.3 million or 4.0% higher than the FY 2017 budget. Personnel has decreased by \$96,734. Operating supplies and expense and professional services have decreased by \$76,602 and reflects lower postage, lease and rate filing related expense. Operating Capital, which includes Information Technology investments and a new Customer Service Application, increased by \$790,000 and debt service increased by approximately \$1.6 million over the prior year, reflecting the debt service associated with NBC's 2015 Series B and 2016 Series A bonds.

Administration & Finance Division Performance Data Summary:

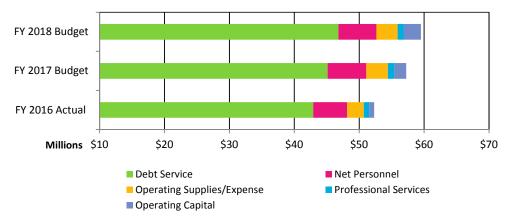
The chart below illustrates the Administration and Finance Division's Performance Data by type of measure. The measures can be found in the individual sections following this division summary. In this Division, Outcome and Efficiency make up 65% of the performance measures.

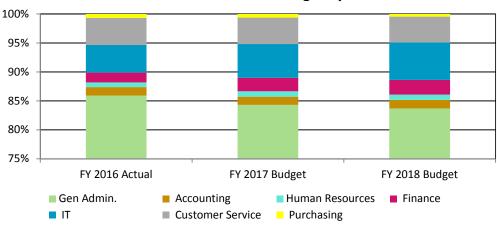


ADMINISTRATION & FINANCE DIVISION - The Budget Division Summary

	FY 2	2016 Actual	FY 2	017 Budget	FY 2	018 Budget
Expenditures by Element of Expense						
Personnel	\$	5,366,877	\$	6,070,557	\$	5,973,823
Less Capital Reimbursements		(118,733)		(116,250)		(116,250)
Net Personnel		5,248,144		5,954,307		5,857,573
Operating Supplies/Expense		2,547,272		3,321,377		3,260,375
Professional Services		854,569		1,002,000		986,400
Operating Capital		743,882		1,825,000		2,615,000
Debt Service		42,903,588		45,137,622		46,786,894
Total Expenditures	\$	52,297,455	\$	57,240,306	\$	59,506,242
Expenditures by Funding Source						
Revenue	\$	51,553,573	\$	55,415,306	\$	56,891,242
Operating Capital Transfer		743,882		1,825,000		2,615,000
Grant		-		-		-
Total Expenditures by Source	\$	52,297,455	\$	57,240,306	\$	59,506,242

Division's Cost by Element





Percent of Division's Budget By Section

FINANCE - The Program

Mission and Overview:

The Finance section ensures that NBC has sufficient resources to carry out its mission and employs sound fiscal policies and practices to enable NBC to provide the highest quality service at a reasonable cost. The Finance section is responsible for development and management of the annual Operating Budget, the 5-year Capital Improvement Plan, the establishment of user charges and management of long-term debt. The Finance section ensures compliance with requirements of the RIPUC, the Trust Indenture and Supplemental Indentures, Continuing Disclosure, Post-Issuance Compliance and other regulatory requirements. This section is also responsible for cash management and NBC's retirement plans.

Major Accomplishments FY 2017 by Key Code:

- **FM 1** Received affirmation of the AA-/Stable Long Term unenhanced credit rating from Standard & Poor's and AAA/A-1+ Long Term rating
- **FM 4** Prepared the Amendment of the NBC Non-Union Defined Benefit Plan and associated Summary of Plan Provisions
- **FM 4** Developed a new internal Budget webpage with fillable forms to facilitate the budget process
- FM 4 Developed and administered the operating budget, finishing under budget for the 25th year
- FM 4 Developed the five-year Capital Improvement Program and managed capital funding
- **FM 5** Developed a No Event of Default Certification checklist to accompany the Certificate of No Default for the Direct Pay Letter of Credit supporting NBC's 2008 Series A Revenue Refunding Bonds
- **FM 5** Replaced the Direct Pay Letter of Credit supporting NBC's 2008 Series A Revenue Refunding Bonds
- **FM 5** Assisted with the preparation of the NBC's Non-Union Defined Benefit Plan Financial Reports for FY 2016 in conformance with GASB 67 and GASB 68
- **FM 5** Finalized amendments to Original Tax Certificates for Outstanding Bonds related to the treatment of the Stabilization Account of the Debt Service Fund
- **C 4** Received the Government Finance Officers' Association (GFOA) Distinguished Budget Presentation Award and received both Special Capital Recognition and Special Performance Measures Recognition
- **OP 3** Prepared and submitted information required per Continuing Disclosure, Post-Issuance Compliance, Trust Indenture, Letter of Credit, RIPUC Orders, IRS and other commitments

- FM 1 Ensure sufficient operating and capital funding with the least ratepayer impact
- **FM 1** Maintain AA- and AAA/A-1+ credit ratings from Standard and Poor's
- **FM 5** Ensure compliance with the Trust Indenture and Supplemental Indentures, The IRS, The RIPUC and all applicable laws, rules and regulations including Continuing Disclosure

FINANCE – The Budget

	FY 20	016 Actual	FY 20	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense						
Personnel	\$	439,060	\$	536,124	\$	636,441
Less Capital Reimbursements		-		-		-
Net Personnel		439,060		536,124		636,441
Operating Supplies/Expense		17,250		31,030		30,050
Professional Services		437,294		500,000		480,000
Operating Capital		1,993		260,000		350,000
Debt Service		-		-		-
Total Expenditures	\$	895,597	\$	1,327,154	\$	1,496,491
Expenditures by Funding Source						
Revenue	\$	893,604	\$	1,067,154	\$	1,146,491
	Ļ	,	Ļ	, ,	Ļ	, ,
Operating Capital Transfer		1,993		260,000		350,000
Grant		-		-		-
Total Expenditures by Source	\$	895 <i>,</i> 597	\$	1,327,154	\$	1,496,491

\$1,600,000 -7 \$1,400,000 -6 \$1,200,000 \$ 5 4 3

FINANCE - Historical Data

\$1,000,000 -		_		
\$800,000 -				- 5
\$600,000 -				
\$400,000 -				
\$200,000			1	3
	FY 2016 Actual	FY 2017 Budget	FY 2018 Budg	et
	Total Expenditures	——Full Time Eq	uivalent (FTE) Positio	ons

PROGRAM STAFFING (BUDGETED)						
Director of Administration and Finance 1.0 Financial Analyst 1.0						
Administrative Assistant	1.0	Rate Analyst	1.0			
Compliance Analyst	1.0	Senior Budget Analyst	1.0			
	6	.0 FTEs				

DIVISION SUMMARIES

FINANCE - Performance Data

FINANCIAL MANAGEMENT:		-	-	nances thi h that sew	-		-	-
OAL ACTION FOR ACHIEVEMENT BY	KEY CODE	:						
Ensure sufficient funding and r			st of horr	wing with	the least	rate nav	er imnact	• FM 1
TARGET MEASURE:		. 10 West co.			the least	rate pay		
Timely filing with PUC to n	naintain si	ufficient on	erating ar	nd canital f	unding hy	due dat	P	
Unit of Measure		5 Actual	-	-	FY 2017 Go		- 2018 Goai	1
General Rate Filing		t needed		/2015	No filing		No filing	·
Debt Service Filing	-	/2016		2016	No filing		No filing	
TARGET MEASURE:	_, ,		-, -,					
Spend .5% or Less of Regu	ested Rev	enue on Oi	utside Rat	e Case Ass	istance			
Unit of Measure	FY 2016		FY 2016		2017 Goal	FY 20	18 Goal	
Percentage	0.74		0.5%		0.5%		.5%	-
TARGET MEASURE:	-					-		
Transmit compliance repo	rts to the	Public Utilit	ties Comn	nission				
Unit of Measure		2016 Actua		2016 Goal	FY 2017	/ Goal	FY 2018 (Goal
Capital Projects		2		2	2		2	
Restricted Accounts	;	4		4	4		4	
Non-Union Retirement F	Plans	9/1/2016		1	1		1	
TARGET MEASURE:								
Maintain at Least "A+" Un	enhanced	Credit Rati	ng with St	andard ar	id Poor's			
Unit of Measure	F	Y 2016 Actua	al F'	7 2016 Goal	FY 201	7 Goal	FY 2018	Goal
S&P Credit Rating		AA-		AA-	AA	4-	AA-	
		AAA/A-1+		AAA/A-1+	AAA/	A-1+	AAA/A	-1+
		•		/ V V Y / Y I '	,			
TARGET MEASURE:			_		, u u y			
Target Measure: Update Long-Term Financi	ial Plan sei				, ,			
Update Long-Term Financi Unit of Measure	FY 2016	mi-annually Actual	/ FY 2016		2017 Goal	FY 201	L8 Goal	
Update Long-Term Financi		mi-annually Actual	/		,	FY 201	1 8 Goal 2	
Update Long-Term Financi Unit of Measure Frequency	FY 2016	mi-annuall _y Actual	/ FY 2016		2017 Goal	FY 203		
Update Long-Term Financi Unit of Measure Frequency GOAL ACTION FOR ACHIEVEMENT BY	FY 2016 2 2 (Key Code	mi-annually Actual	FY 2016 2	Goal FY	2 2 2		2	ated
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GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Develop and manage NBC's operating and capital budgets to maximize benefits, minimize expense and unplanned expenditures • FM 4

inplatified experiatelies of the	4							
TARGET MEASURE:								
Receive GFOA Distinguishe	ed Budget	: Presenta	tion Aw	ard				
Unit of Measure	FY 201	5 Actual	FY 2	016 Goal	FY 2017	Goal	FY 2018	3 Goal
Consecutive Years	1	.4		14	15		16	5
TARGET MEASURE:								
Process 100% of budget tra	ansfers 5	days prior	r to mor	nth end				
Unit of Measure	FY 201	5 Actual	FY 2	016 Goal	FY 2017	Goal	FY 2018	3 Goal
Percentage	10	0%		100%	100	%	100)%
TARGET MEASURE:								
Prepare and transmit mon	thly finar	ice report	to Fina	nce Comm	nittee			
Unit of Measure	FY 2016	Actual	FY 2	016 Goal	FY 2017	Goal	FY 2018	3 Goal
Frequency	Mor	ithly	Μ	onthly	Mont	hly	Mont	hly
TARGET MEASURE:								
Upload and maintain Oper	ating Bud	lget and C	IP inter	net featur	es			
Unit of Measure	FY 2016	Actual	FY 2	016 Goal	FY 2017	Goal	FY 2018	3 Goal
Percentage	248 Up	odates		100%	1009	%	100	%
TARGET MEASURE:								
Prudently administer the r	ion-unior	defined b	oenefit j	olan				
Unit of Measure		FY 2016	Actual	FY 20	16 Goal	FY 20	17 Goal	FY 20
Due Date - Actuarial Stu	udy	8/18/2	2016	3/32	1/2016	3/32	1/2017	3/3
Percentage - Funded Minim	um ARC	100	%	1	00%	1	00%	1
Due Date – GASB Financial	Report	8/30/2	2016	8/32	1/2016	8/32	1/2017	8/3
TARGET MEASURE:								
Review retirement plan inv	vestment	s quarterly	y					
netten retirentente plan in			EV 2		FY 2017	Goal	FY 2018	Goal
Unit of Measure	FY 2016	Actual	<u> </u>	016 Goal	FT 2017	UUai	112010	

CUSTOMER FOCUS:

Maintain a customer-focused attitude throughout the organization.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Ensure compliance with NBC's internal controls • CF 5

TARGET MEASURE

Process 100% of operating capital transfer requests and receive Finance Committee approval for all operating capital transfer requests over \$50,000 prior to processing

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Total Transfer Requests	34	100%	100%	100%
Transfer Requests >\$50,000	4	100%	100%	100%

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STAFFING:
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Attract, develop and retain highly qualified employees.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Unit of Mossure	EV 2016 Actual	EV 2016 Cool	EV 201
Provide a minimum of 30 Tr	aining/Seminars h	nours	

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Hours	83.5	30	30	30	

COMMUNICATION:

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Enhance operating budget, CIP and compliance reports and as communication device • C 4

TARGET MEASURE:

Operating Budget Receives a Proficient or Better Rating as a Communication Device by GFC	OA
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Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Received	Proficient/Outstanding	Yes	Yes	Yes

TARGET MEASURE:

Complete Annual Sewer User Fee Survey

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
MWRA	5/11/2016	Yes	Yes	Yes
NACWA	12/15/2015	Yes	Yes	Yes
NBC Statewide	5/11/2016	Yes	Yes	Yes

HUMAN RESOURCES - The Program

Mission and Overview:

The Human Resources section is responsible for the administration and processing of employee records, employee recruitment and retention, workers' compensation and equal employment opportunity for union and non-union personnel. This section is also responsible for regulatory compliance, the evaluation and administration of employee benefits and for administering provisions of the two collective bargaining agreements.

Major Accomplishments FY 2017 by Key Code:

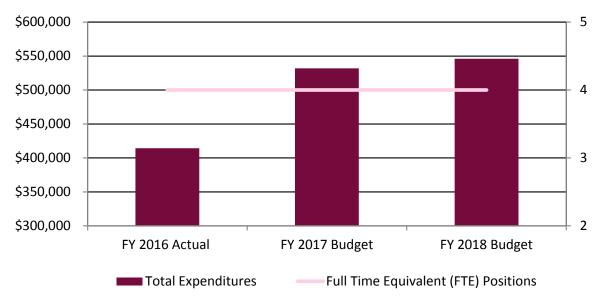
- **FM 4** Evaluated and renewed Group Life, Long-Term Disability, Dental Insurance and Flexible Spending Account Plans
- FM 4 Provided daily administration of the non-union retirement plans
- **S1** Completed timely reporting of all state and federal required disclosures to staff and government agencies
- **S1** Submitted the EEO report by the due date
- **S 2** Received Best Places to Work in RI Award
- **S 4** Provided workplace wellness and training programs to staff
- **S4** Achieved workers' compensation experience modification of 1.19

- FM 4 Effectively manage NBC's employee benefits programs
- **S1** Ensure timely administration of NBC hiring procedures in accordance with Federal & State labor laws
- **S 4** Continue the workplace wellness initiative

HUMAN RESOURCES - The Budget

	FY 20	16 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense Personnel Less Capital Reimbursements	\$	381,372	\$	402,833	\$	417,090
Net Personnel		381,372		402,833		417,090
Operating Supplies/Expense		17,217		22,000		22,000
Professional Services		16,063		57,000		57,000
Operating Capital		-		50,000		50,000
Debt Service		-	-	-	-	-
Total Expenditures	Ş	414,652	\$	531,833	\$	546,090
Expenditures by Funding Source						
Revenue	\$	414,652	\$	481,833	\$	496,090
Operating Capital Transfer		-		50,000		50,000
Grant		-		-		-
Total Expenditures by Source	\$	414,652	\$	531,833	\$	546,090

HUMAN RESOURCES - Historical Data



	Prog	PROGRAM STAFFING (BUDGETED)					
Human Resources Manager	1.0	Human Resources Representative/Benefits Coordinator	1.0				
Human Resources Clerk	1.0	Senior Human Resources Representative	1.0				
		4.0 FTEs					

HUMAN RESOURCES - Performance Data

FINANCIAL MANAGEMENT:	Мс	-	-	through strong		-
		controls	Such that Se		ges are minin	inzeu.
GOAL ACTION FOR ACHIEVEMENT B						
Develop and manage NBC's op		tal hudgets	to maximia	za hanafits mi	inimize evnen	se and
unplanned expenditures • FM		tai buuget		e benents, m	inininze experi	se anu
	4					
TARGET MEASURE:	- f (4) 4 [†]			- 1		
Evaluate comparable ben		-			EV 2010 C I	
Unit of Measure	FY 2016 Actual			FY 2017 Goal	FY 2018 Goal	-
Percentage	100%	-	100%	100%	100%	
TARGET MEASURE:						
Complete Retirement Plan	=		54 204 6 6			
Unit of Measure Due Date - Defined Be	FY 2016		FY 2016 C			18 Goal
Due Date - Defined Contr	, ,	2016	2/28/20 7/30/20			8/2018 0/2017
Due Date - Defined Contr		2015	//50/20	15 7/50/.	2010 7/50	5/2017
CUSTOMER FOCUS:	Mainta	in a custor	ner-focused	l attitude thro	uahout the o	raanization.
			,			y
GOAL ACTION FOR ACHIEVEMENT B	Y KEY CODE:					
Enhance internal communicat	ions to ensure co	nsistency.	reliability a	nd satisfactior	• CE 3	
Target Measure:			i enability a			
Provide up to date inform	ation on NBC's B	enefits We	hnage quar	terly		
Unit of Measure	FY 2016 Actual			FY 2017 Goal	FY 2018 Goal	
Frequency	10 Updates		arterly	Quarterly	Quarterly	
ricquericy	10 Opuales					
				Quarterry	Quarterry	
				Quarterry	Quarterly	
Staffing:				·		oyees.
Staffing:				retain highly o		oyees.
STAFFING:				·		oyees.
STAFFING: GOAL ACTION FOR ACHIEVEMENT B				·		oyees.
GOAL ACTION FOR ACHIEVEMENT B	Y KEY CODE:	Attract, de	evelop and i	·		oyees.
	Y KEY CODE:	Attract, de	evelop and i	·		oyees.
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fe TARGET MEASURE:	Y KEY CODE: ederal and State I	Attract, de	evelop and i			oyees.
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fe TARGET MEASURE: Submit annual EEO report	Y KEY CODE: ederal and State l	Attract, de abor laws	• S 1	retain highly o	qualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fe TARGET MEASURE:	Y KEY CODE: ederal and State by due date FY 2016 Actual	Attract, de abor laws	• S 1 016 Goal	retain highly o	yualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fe TARGET MEASURE: Submit annual EEO report Unit of Measure	Y KEY CODE: ederal and State l	Attract, de abor laws	• S 1	retain highly o	qualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fo TARGET MEASURE: Submit annual EEO report Unit of Measure Due date	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015	Attract, de abor laws	• S 1 016 Goal	retain highly o	yualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fo TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE:	Attract, de labor laws <u>FY 20</u> 8/2	• S 1 • D16 Goal 1/2015	retain highly a FY 2017 Goal 8/1/2016	yualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fo TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE:	Attract, de labor laws <u>FY 20</u> 8/2	• S 1 • D16 Goal 1/2015	retain highly a FY 2017 Goal 8/1/2016	yualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fe TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE:	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE:	Attract, de labor laws <u>FY 20</u> 8/2	• S 1 • D16 Goal 1/2015	retain highly a FY 2017 Goal 8/1/2016	yualified empl	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fe TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE: Conduct exit interviews	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE: ronment through	Attract, de labor laws FY 20 8/: n effective o	• S 1 • S 1 1/2015	FY 2017 Goal 8/1/2016 tion • S 2	FY 2018 Goal 8/1/2017	
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fo TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE: Conduct exit interviews Unit of Measure	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE: ronment through	Attract, de labor laws FY 20 8/: n effective o	• S 1 • S 1 1/2015 communicat	FY 2017 Goal 8/1/2016 tion • S 2	FY 2018 Goal 8/1/2017	Goal
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fo TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE: Conduct exit interviews Unit of Measure Percentage 5	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE: ronment through	Attract, de labor laws FY 20 8/: n effective o	• S 1 • S 1 1/2015	FY 2017 Goal 8/1/2016 tion • S 2	FY 2018 Goal 8/1/2017	Goal
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the Fo TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE: Conduct exit interviews Unit of Measure Percentage 5 TARGET MEASURE:	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE: ronment through FY 2016 Actual 2% - 11 Exit Intervi	Attract, de labor laws FY 20 8/: a effective of ews	• S 1 • S 1 1/2015 communicat	FY 2017 Goal 8/1/2016 tion • S 2 FY 2017 Go 100%	FY 2018 Goal 8/1/2017	Goal
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the For TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE: Conduct exit interviews Unit of Measure Percentage 5 TARGET MEASURE: Prepare and distribute envi	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE: ronment through FY 2016 Actual 2% - 11 Exit Intervi	Attract, de labor laws FY 20 8/: a effective of ews	• S 1 • S 1 1/2015 communicat FY 2016 Goal 100%	FY 2017 Goal 8/1/2016 tion • S 2 FY 2017 Go 100%	FY 2018 Goal 8/1/2017	Goal
GOAL ACTION FOR ACHIEVEMENT B Ensure compliance with the For TARGET MEASURE: Submit annual EEO report Unit of Measure Due date GOAL ACTION FOR ACHIEVEMENT B Foster a positive working envi TARGET MEASURE: Conduct exit interviews Unit of Measure Percentage STARGET MEASURE: Prepare and distribute envi Unit of Measure	Y KEY CODE: ederal and State l by due date FY 2016 Actual 8/1/2015 Y KEY CODE: ronment through FY 2016 Actual 2% - 11 Exit Intervi aployment postin FY 2016 Actual	Attract, de abor laws FY 20 8/: a effective of ews gs within 1	• S 1 • S 1 <u>016 Goal</u> 1/2015 communicat FY 2016 Goal 100% week of ap FY 2016 Goa	FY 2017 Goal 8/1/2016 tion • S 2 FY 2017 Go 100% proval I FY 2017 G	FY 2018 Goal 8/1/2017	Goal Goal
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TARGET MEASURE:

Implement a minimum of 1 employee training program										
	Unit of Measure	FY 2016 Actual	_	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal				
	Quantity	2		1	1	1				
TARGET ME	ASURE:									
Receive	the Best Places to	Work in RI Award								
	Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal				
_	Consecutive Years	6		6	7	8				

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Attend a minimum of 2 outside HR related seminars

_	Unit of Measure	FY 2016 Actual	_	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Quantity	5		2	2	2
TARGET ME	ASURE:					
Provide a	a minimum of 2 wo	orkshops and 10 pa	rti	cipant meeting	s with NBC's inv	estment adviso
	Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Workshops	2		2	2	2
I	Participant Meetings	14		10	10	10

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide a healthy and safe working environment • S 4

TARGET MEASURE:

Investigate workers' compensation injuries and make recommendations to prevent reoccurrence

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	22 Investigations	100%	100%	100%

TARGET MEASURE:

Implement a minimum of 2 Wellness Incentive Programs

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Programs Offered	5	2	2	2
Participating Employees	80%	50%	50%	50%
Employees Reaching Wellness Maximum	31%	30%	30%	30%

TARGET MEASURE:

Maintain a workers' compensation experience modification rating of 1.00 or lower

Unit of	Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Go	bal	FY 2018 Goal	
Ra	ting	.96	≤1.00	≤1.00		≤1.00	

ACCOUNTING - The Program

Mission and Overview:

The Accounting section is responsible for preparing and issuing monthly financial statements in accordance with "Generally Accepted Accounting Principles". Accounting also provides cash management support and ensures compliance with the flow of funds set forth in the Trust Indenture and PUC Orders. The Accounting section is also responsible for processing payroll, vendor payments, maintaining the general ledger, assisting in securing financing, rate filings and processing capital project expenditures.

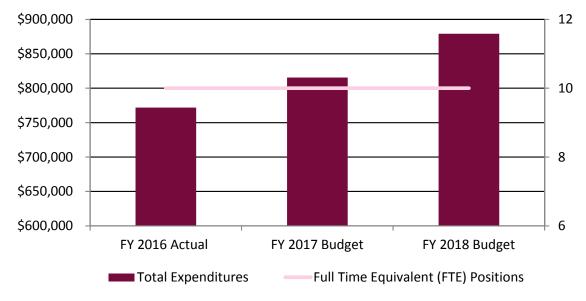
Major Accomplishments FY 2017 by Key Code:

- **FM 5** Completed the FY 2016 audit by the statutory September 30th deadline
- **FM 5** Completed the FY 2016 Single Audit by the November 30st deadline
- **FM 5** Received a clean audit opinion and no management letter for the 19th consecutive year
- **FM 5** Received the GFOA Certificate of Achievement for Excellence in Financial Reporting for the 14th consecutive year
- **FM 5** Assisted with the preparation of the FY 2016 Financial Reports for the NBC's Non-Union Defined Benefit Plan in conformance with GASB 67 and GASB 68
- FM 5 Accurately calculated and submitted the monthly transfers as required by the Trust Indenture
- **FM 5** Prepared and distributed first year ACA IRS reporting for CY 2016
- FM 5 Accurately completed the PUC's monthly restricted account reporting
- **FM 6** Processed and submitted approximately \$39.5 million in capital invoices to NBC's Trustee and the RIIB
- **FM 6** Processed all operating invoices and bi-weekly payrolls in a timely manner and received \$3,802 in discounts for prompt payment

- **FM 5** Complete the FY 2017 audit in a timely basis and receive a clean audit opinion and no management letter
- FM 5 Ensure proper calculation and processing of the monthly transfers as required by the Trust Indenture
- FM 6 Process all operating invoices, capital invoices, and the bi-weekly payroll in a timely manner

ACCOUNTING - The Budget

	FY 2	016 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense						
Personnel	\$	847,111	\$	881,564	\$	872,374
Less Capital Reimbursements		(118,733)		(116,250)		(116,250)
Net Personnel		728,378		765,314		756,124
Operating Supplies/Expense		8,492		10,125		10,095
Professional Services		35,000		35,000		38,000
Operating Capital		-		5,000		75,000
Debt Service		-		-		-
Total Expenditures	\$	771,870	\$	815,439	\$	879,219
Expenditures by Funding Source						
Revenue	\$	771,870	\$	810,439	\$	804,219
Operating Capital Transfer		-		5,000		75,000
Grant		-		-		-
Total Expenditures by Source	\$	771,870	\$	815,439	\$	879,219



ACCOUNTING - Historical Data

PROGRAM STAFFING (BUDGETED)							
Accounting Manager	1.0	Payroll Administrator	1.0				
Capital Accounting Assistant	1.0	Payroll Supervisor	1.0				
Capital Principal Accountant	1.0	Principal Accountant	1.0				
Fiscal Clerk	1.0	Senior Fiscal Clerk	1.0				
	Staff Accountant 2.0						
	10	0.0 FTEs					

INANCIAL MANAGEMENT	:		Ma	-	-	ances thro that sewe	-		-	-
AL ACTION FOR ACHIEVEM										
Comply with IRS, State o			uloc and		ulations 1	ruct Indo	atura and	Gonora		tod
			lies and	u negi	liations, i	rust muei	iture anu	Genera	пу Ассер	leu
Accounting Principles • F TARGET MEASURE:										
Receive the GFOA Co	ortificat	o of Achie	womor	t for I	Excollong	n in Einand	cial Popor	ting		
Unit of Mea		FY 2016			FY 2016 G		2017 Goal	-	18 Goal	
Consecutive		11 2010 1			14		15	-	16	Ī
TARGET MEASURE:	Tears	14			14		15		10	
Timely completion o	of financ	rial audit								
Unit of Mea			FY 2	2016 A	ctual	FY 2016	Goal F	Y 2017 G	oal FY	2018 Goal
Completion c				/30/20		9/30/2		9/30/201		/30/2018
Consecutive Years - No M		nent Letter		18		18		19		20
Address Findings v) Findir	ngs	0 Findi	ngs	0 Finding	gs C) Findings
Receive a clear	n opinion	า		Yes		Yes		Yes		Yes
TARGET MEASURE:										
Timely completion o	of single	audit if re	equired	ł						
Unit of Mea			2016 A			016 Goal	FY 2017	' Goal	FY 2018	Goal
Completion of Si	-		9/30/20			31/2017	3/31/2		3/21/20	
Address findings w	vithin 5 c	days	0 Findin	ngs	0 F	indings	0 Find	ings	0 Findir	ngs
TARGET MEASURE:										
Prepare monthly fin						•				
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TARGET MEASURE:

Post quarterly financial statements on NBC's website and submit the quarterly surcharge reports to RIDEM

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Financials Posted	4	4	4	4
Surcharge Reports Submitted	4	4	4	4

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Ensure goods and services are procured, reviewed and processed in a timely, efficient and cost effective manner

• FM 6

TARGET MEASURE:

Process 100% of invoices

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Operating Invoices	7,947 Operating Invoices	100%	100%	100%
Capital Invoices	473 Capital Invoices	100%	100%	100%

STAFFING:	Attro

Attract, develop and retain highly qualified employees.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Ensure accountants and payroll administrators complete a minimum of 50 training hours

Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Hours	73		50	50	50	

INFORMATION TECHNOLOGY - The Program

Mission and Overview:

The IT section of NBC is responsible for all aspects of networks, telecommunications, hardware, software and databases for the entire enterprise. As a group, IT provides the infrastructure to enable NBC to have a cohesive, productive workforce. IT is responsible for ensuring the agency has the technology to perform at the expected level of 99% uptime.

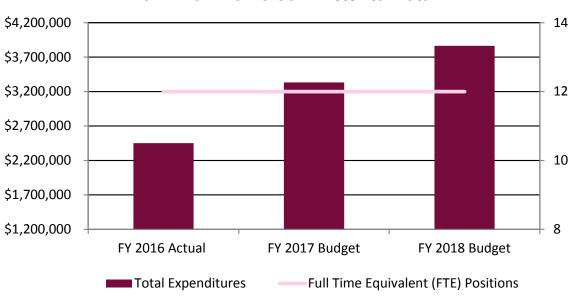
Major Accomplishments FY 2017 by Key Code:

- **CB 3** Replaced critical server infrastructure at the Corporate Office Building
- **CB 3** Initiated replacement of the Laboratory Information System
- **CB 3** Expanded wireless mesh network at Bucklin Point
- **CB 3** Expanded thin client roll out to EMDA and Pretreatment
- **CB 3** Initiated the migration to a 3rd party Customer Service Application
- CB 3 Upgraded Hansen to latest version
- **CB 3** Migrated databases to latest version of Oracle

- **CB 3** Replace Storage Area Network (SAN) at the Corporate Office Building
- **CB 3** Replace the Laboratory Information Management System
- **CB 3** Upgrade Edge Switch Infrastructure
- **CB 3** Expand Thin-Clients throughout NBC campus
- **CB 3** Implement Customer Service Application

INFORMATION TECHNOLOGY – The Budget

	FY 2	016 Actual	FY 2	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,324,517	\$	1,370,533	\$	1,342,256
Less Capital Reimbursements		-		-		-
Net Personnel		1,324,517		1,370,533		1,342,256
Operating Supplies/Expense		566,453		628,236		603,240
Professional Services		-		-		-
Operating Capital		588,432		1,335,000		1,920,000
Debt Service		-		-		-
Total Expenditures	\$	2,479,402	\$	3,333,769	\$	3,865,496
Expenditures by Funding Source						
Revenue	\$	1,890,970	\$	1,998,769	\$	1,945,496
Operating Capital Transfer		588,432		1,335,000		1,920,000
Grant		-		-		-
Total Expenditures by Source	\$	2,479,402	\$	3,333,769	\$	3,865,496



INFORMATION TECHNOLOGY - Historical Data

Program Staffing (Budgeted)							
Information Technology Manager	1.0	Senior Database and Linux Administrator	1.0				
Computer Training Support Specialist	1.0	Senior Network and Communication Administrator	1.0				
Junior Networks and Communications Administrator	1.0	Senior Systems Administrator	1.0				
PC/Phone Support/Systems Administrator Specialist	1.0	Senior Systems Development Programmer	1.0				
Senior Applications System Supervisor	1.0	Senior .NET Developer	1.0				
Senior Database Administrator	1.0	Systems Design Programmer	1.0				
	12.0	FTEs					

INFORMATION TECHNOLOGY - Performance Data

CORE BUSINESS:		•		-		n and treatment
		ensure that	t all State	e and Fe	deral requireme	ents are met or s
.		K				
OAL ACTION FOR ACHIEVEMEN						
Ensure the highest level of	avai	lability of systems' a	applicatio	ons and r	network stability	y ● CB 3
TARGET MEASURE:	0 -1 -					
Ensure no more than 1		FY 2016 Actual	aintain s' FY 201		•	EV 2018 Cool
Unit of Measu Hours	ire	3	F¥ 201 ≤1		FY 2017 Goal ≤10	FY 2018 Goal ≤10
Hours		3	21	.0	510	510
OAL ACTION FOR ACHIEVEMEN						
Maximize efficiency throug			nnlicatio		ity and NPC car	pus socurity • C
TARGET MEASURE:	sii se	i vice automation, a	pplicatio	is securi	ILY AND NOC CAN	ipus security • Ci
	caro	rupping current cu	nnartad	Annlicati	ions and Operat	ing systems
Ensure 100% of server Unit of Measu		FY 2016 Actual	FY 201		FY 2017 Goal	FY 2018 Goal
Percentage	-	86%	100		100%	100%
Prevent 100% of secur			-			100/0
Unit of Measure	•	FY 2016 Actual		016 Goal	FY 2017 Goal	FY 2018 Goal
		2,155,774 Scanned				
Percentage		45,098 Violations	1	.00%	100%	100%
TARGET MEASURE:						
Target Measure: Prevent 100% of secur	ity b	reaches into NBC er	mail serve	er		
		reaches into NBC er FY 2016 Actual		er)16 Goal	FY 2017 Goal	FY 2018 Goal
Prevent 100% of secur	3		FY 20		FY 2017 Goal 100%	FY 2018 Goal
Prevent 100% of secur Unit of Measure	3	FY 2016 Actual 1,236,941 Blocked	FY 20)16 Goal		
Prevent 100% of secur Unit of Measure Percentage	2	FY 2016 Actual 1,236,941 Blocked 6,719 Quarantined	FY 2 (016 Goal	100%	100%
Prevent 100% of secur Unit of Measure Percentage TARGET MEASURE:	ecuri	FY 2016 Actual 1,236,941 Blocked 6,719 Quarantined	FY 2 (016 Goal .00% estions v	100%	100%
Prevent 100% of secur Unit of Measure Percentage TARGET MEASURE: Complete Bi-Annual Se	ecurit ure	FY 2016 Actual 1,236,941 Blocked 6,719 Quarantined ty audit and implem	FY 20	016 Goal .00% estions v 6 Goal	100% within 12 month	100%
Prevent 100% of secur Unit of Measure Percentage TARGET MEASURE: Complete Bi-Annual Se Unit of Measu	ecurit ure	FY 2016 Actual 1,236,941 Blocked 6,719 Quarantined ty audit and implem FY 2016 Actual	FY 20 1 nent sugg FY 201	016 Goal .00% estions v 6 Goal	100% within 12 month FY 2017 Goal	100% 15 FY 2018 Goal
Prevent 100% of secur Unit of Measure Percentage TARGET MEASURE: Complete Bi-Annual Se <u>Unit of Measu</u> Audit Comple	ecurit ure	FY 2016 Actual 1,236,941 Blocked 6,719 Quarantined ty audit and implem FY 2016 Actual Yes	FY 20 1 nent sugg FY 201 Ye	016 Goal 00% estions v 6 Goal	100% within 12 month FY 2017 Goal No Audit	100% ns FY 2018 Goal Yes
Prevent 100% of secur Unit of Measure Percentage TARGET MEASURE: Complete Bi-Annual Se Unit of Measu	ecurit ure	FY 2016 Actual 1,236,941 Blocked 6,719 Quarantined ty audit and implem FY 2016 Actual Yes Mana	FY 20 1 nent sugg FY 201 Ye	016 Goal 00% estions v 6 Goal es	100% within 12 month FY 2017 Goal No Audit s through stron	100% 15 FY 2018 Goal

Develop and manage NBC's operating and capital budgets to maximize benefits, minimize expense and unplanned expenditures • FM 4

TARGET MEASURE:

Complete 100% of planned capital items

•	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Budgeted	14	100%	100%	100%
	Completed	13	100%	100%	100%

CUSTOMER F	DCUS:	Maintair	n a customer-foci	used attitude th	roughout the organization
		KEY CODE: ons to ensure consi	stency, reliability	and satisfactior	n • CF 3
-		esk requests withir	n two hours		
Respond	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
-	Percentage	99.6%	100%	100%	100%
STAFFING:		At	tract, develop an	d retain highly	qualified employees.
IOAL ACTION FO	DR ACHIEVEMENT BY	KEY CODE:			
			ing to optimize te	eam performand	e and ensure user comfo
-	s and processes • S	-		p	
, TARGET ME					
Provide	a minimum of 140	user training session	ons		
	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Incentive	51	50	50	50
	Non-Incentive	98	90	100	100
TARGET ME					
Provide		employee training			
-	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Hours	292	210	250	250
-	_				
ORGANIZATIO	NAL PERFORMANC	E: Ensure th	nat the NBC oraa		ed with and supports ou
			-	strategic goals.	
			-	_	
	DR ACHIEVEMENT BY			strategic goals.	
Provide end-	user technology a	Key CODE: nd systems to meet		strategic goals.	
Provide end- Target Me	user technology a ASURE:	nd systems to meet	NBC's strategic g	strategic goals. goals • OP 4	
Provide end- Target Me	user technology a ASURE: computer hardward		NBC's strategic g	strategic goals. goals • OP 4	FY 2018 Goal
Provide end- Target Me	user technology a ASURE:	nd systems to meet e does not exceed 5	: NBC's strategic g 5-year Desktop life	strategic goals. goals • OP 4 ecycle	
Provide end- Target Me	user technology a ASURE: computer hardward Unit of Measure	nd systems to meet e does not exceed 5 FY 2016 Actual	: NBC's strategic g 5-year Desktop lif FY 2016 Goal	strategic goals. goals • OP 4 ecycle FY 2017 Goal	FY 2018 Goal
Provide end- Target Me Ensure c	user technology an ASURE: computer hardware <u>Unit of Measure</u> PCs ThinClients ASURE:	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100%	5-year Desktop lif FY 2016 Goal 100% 100%	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% 100%	FY 2018 Goal 100% 100%
Provide end- Target Me Ensure c	user technology an ASURE: computer hardware Unit of Measure PCs ThinClients ASURE: NBC software upda	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one	NBC's strategic g -year Desktop lif FY 2016 Goal 100% 100% version behind t	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% 100% he latest release	FY 2018 Goal 100% 100%
Provide end- Target Me Ensure c	user technology an ASURE: computer hardward Unit of Measure PCs ThinClients ASURE: IBC software upda Unit of Measure	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual	NBC's strategic g -year Desktop lifi FY 2016 Goal 100% 100% version behind t FY 2016 Goal	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% he latest release FY 2017 Goal	FY 2018 Goal 100% 100%
Provide end- Target Me Ensure c	user technology an ASURE: computer hardward PCs ThinClients ASURE: NBC software upda Unit of Measure Oracle	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100%	NBC's strategic g -year Desktop lif <u>FY 2016 Goal</u> 100% version behind t <u>FY 2016 Goal</u> 100%	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% he latest release FY 2017 Goal 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100%
Provide end- Target Me Ensure c	user technology an ASURE: computer hardward PCs ThinClients ASURE: IBC software upda Unit of Measure Oracle Hansen	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100% 100%	NBC's strategic g -year Desktop lift FY 2016 Goal 100% version behind t FY 2016 Goal 100% 100%	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% he latest release FY 2017 Goal 100% 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100% 100%
Provide end- Target Me Ensure o Target Me Ensure N	user technology an ASURE: computer hardward PCs ThinClients ASURE: IBC software upda Unit of Measure Oracle Hansen GIS	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100%	NBC's strategic g -year Desktop lif <u>FY 2016 Goal</u> 100% version behind t <u>FY 2016 Goal</u> 100%	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% he latest release FY 2017 Goal 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100%
Provide end- Target Me Ensure of Target Me Ensure N	user technology an ASURE: computer hardware PCs ThinClients ASURE: NBC software upda Unit of Measure Oracle Hansen GIS ASURE:	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100% 100% 100%	NBC's strategic g s-year Desktop lift FY 2016 Goal 100% 100% version behind t FY 2016 Goal 100% 100% 100%	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% 100% he latest release FY 2017 Goal 100% 100% 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100% 100% 100% 100%
Provide end- Target Me Ensure of Target Me Ensure N	user technology an ASURE: computer hardward PCs ThinClients ASURE: NBC software upda Unit of Measure Oracle Hansen GIS ASURE: naximum number ned	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100% 100% 100%	NBC's strategic g FY 2016 Goal 100% 100% version behind t FY 2016 Goal 100% 100% 100% ad versions of app	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% 100% he latest release FY 2017 Goal 100% 100% 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100% 100% 100% erating systems are
Provide end- Target Me Ensure of Target Me Ensure N Target Me Ensure r	user technology an ASURE: computer hardward PCs ThinClients ASURE: NBC software upda Unit of Measure Oracle Hansen GIS ASURE: naximum number ned Unit of Measure	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100% 100% 0f current supporte FY 2016 Actual	NBC's strategic g -year Desktop lift FY 2016 Goal 100% 100% version behind t FY 2016 Goal 100% 100% 100%	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% 100% he latest release FY 2017 Goal 100% 100% 100% 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100% 100% 100% erating systems are FY 2018 Goal
Provide end- Target Me Ensure of Target Me Ensure N Target Me Ensure r	user technology an ASURE: computer hardward PCs ThinClients ASURE: NBC software upda Unit of Measure Oracle Hansen GIS ASURE: naximum number ned	nd systems to meet e does not exceed 5 FY 2016 Actual 99% 100% tes are at least one FY 2016 Actual 100% 100% 100%	NBC's strategic g FY 2016 Goal 100% 100% version behind t FY 2016 Goal 100% 100% 100% ad versions of app	strategic goals. goals • OP 4 ecycle FY 2017 Goal 100% 100% he latest release FY 2017 Goal 100% 100% 100%	FY 2018 Goal 100% 100% ed version FY 2018 Goal 100% 100% 100% erating systems are

CUSTOMER SERVICE - The Program

Mission and Overview:

The Customer Service is responsible for accurate and timely billing of approximately 84,200 accounts in the NBC service area. Water consumption based billings comprise more than half of the annually billed user charges, and the NBC receives water consumption data from seven different water supply boards. Customers are billed on a monthly basis. The billing section also responds to customer inquiries including closing requests. Additionally, Customer Service has field investigators who research accounts and facilitate the abatement program. Collection activity includes phone calls, the water shut-off process and support for the lien sale. Customer service is committed to providing NBC's customers with excellent service.

Major Accomplishments FY 2017 by Key Code:

- FM 3 Completed timely and accurate monthly billings of NBC's 84,200 accounts
- **FM 3** Billed more than \$97 million in user fee revenue
- FM 3 Collected approximately \$500,000 per month through the Water Shut-off program
- **CF 3** Refined and expanded Customer Service Application to more efficiently service NBC customers
- **CF 5** Obtained site readings for more than 400 customers per month on average
- **CF 5** Received and responded to an average of 4,600 customer calls per month

- CB 4 Assist with the implementation of a new Customer Service System Application
- FM 3 Ensure complete and accurate billings and streamline collection strategies to maximize results
- **CF 2** Provide excellent customer service
- **S 3** Continue to provide training for Customer Service staff

CUSTOMER SERVICE - The Budget

	FY 20	016 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense Personnel	\$	1,850,727	\$	2,001,488	\$	2,030,018
Less Capital Reimbursements		-		-		-
Net Personnel		1,850,727		2,001,488		2,030,018
Operating Supplies/Expense		529,758		554,793		539,793
Professional Services		529,758		38,000		46,400
Operating Capital		25,208		30,000		30,000
Debt Service		-		-		-
Total Expenditures	\$	2,459,045	\$	2,624,281	\$	2,646,211
Expenditures by Funding Source						
Revenue	\$	2,433,837	\$	2,594,281	\$	2,616,211
Operating Capital Transfer		25,208		30,000		30,000
Grant		-		-		-
Total Expenditures by Source	\$	2,459,045	\$	2,624,281	\$	2,646,211



PROGRAM STAFFING (BUDGETED)							
Customer Service Manager	1.0	Customer Service Analyst	2.0				
Assistant Billing Supervisor	1.0	Customer Service Representative	8.0				
Assistant Collections Supervisor	1.0	Customer Service Representative - Fiscal Clerk	2.0				
Billing Supervisor	1.0	Customer Service Support Supervisor	1.0				
Collections Analyst	1.0	Field Investigator	3.0				
Collections Supervisor	1.0	Fiscal Clerk	1.0				
Customer Research Supervisor	1.0	Senior Fiscal Clerk	1.0				
25.0 FTEs							

CUSTOMER SERVICE - Performance Data

NANCIAL MANAGEMENT:			-	ng financial planni arges are minimize
				5
AL ACTION FOR ACHIEVEMENT	BY KEY CODE:			
laximize the efficiency, effe	ctiveness, and accurac	cy of NBC's rate s	tructures and co	ollection processe
ccounts receivable • FM 3				
TARGET MEASURE:				
Ensure a minimum of 98	% of accounts have an	actual meter rea	ading within 12	months
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	827,275 Accounts	98%	98%	98%
TARGET MEASURE:				
Call a minimum of 90% o	of accounts with over 3	30-day balances		
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	21,167 Accounts	90%	90%	90%
TARGET MEASURE:				
Create a minimum of 10				
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	2,197 Accounts	8%	8%	8%
TARGET MEASURE:				
Send foreclosure letters		-		
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	792 Accounts	100%	100%	100%
TARGET MEASURE:				
Select a minimum of 5,00			5V 2047 C	5V 2010 C I
Unit of Measure	FY 2016 Actual	FY 2016 Goa		
Selected Posted	7,809 47% - 3,671 Accounts	5,000 50%	5,000 50%	5,000 50%
Terminated	10% - 811 Accounts	18%	18%	18%
TARGET MEASURE:	10/0 011/10004113	10/0	10/0	10/0
Late fees are 1.5% or less	s of the percentage of	user fee hilling		
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	.97%	<1.5%	<1.5%	<1.5%
TARGET MEASURE:				
Conduct monthly billing	of NBC Accounts			
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Billings	12	12	12	12
Accounts	200	200	200	200
USTOMER FOCUS:	Maintain	a customer-focu	sed attitude thr	roughout the orga
L ACTION FOR ACHIEVEMENT				
rovide prompt, courteous, e	efficient and educatior	nal services • CF	2	
TARGET MEASURE:				
Add new meters into	customer service appl	ication		
Unit of Measure	FY 2016 Actual	FY 2016 Goa	I FY 2017 Goa	I FY 2018 Goal
Percentage	280 Meters	100%	100%	100%
TARGET MEASURE:				
Investigate new sewe	r connection permits			

/est					
	Unit of Measure FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
_	Percentage	1,316 Permits	100%	100%	100%

TARGET MEASURE:

-											
Proce	ss 100% of Ab	atem	ent Applications								
	Unit of Measur	e	FY 2016 Actual		FY 20)16 Goal	FY 2	017 Goal	FY 2	2018 Goal	
	Percentage		170 Applications		1	.00%		100%		100%	
TARGET N	IEASURE:										
Proces	ss 100% of req	uests	for new and up	datir	ng of e	existing P	retrea	itment acc	count	S	
	Unit of Measu	re	FY 2016 Actual		FY 20	16 Goal	FY 20	017 Goal	FY 2	018 Goal	
	New		262 Accounts		10	00%	1	100%		100%	
	Updated		714 Accounts		10	00%	1	100%		100%	
TARGET N	IEASURE:										
Resolv	e account disp	utes	within 30 days								
Uni	t of Measure		FY 2016 Actual		F	Y 2016 Go	bal	FY 2017 Go	bal	FY 2018 G	bal
F	Percentage	98%	6 - 3,137 Resolutio	ons		96%		96%		96%	
TARGET N	IEASURE:										
Process closings requests within 48 hours											
U	nit of Measure		FY 2016 Act	ual		FY 2016	6 Goal	FY 2017	Goal	FY 2018	Goal
	Total Closings		5,628			959		95%	/	95%	,
Proces	sed within 48 h	ours	<i>86% -</i> 4,862 Red	quest	s	957	/0	957	0	957	0

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Maximize customer focus attitude by providing excellent customer service and developing strong customer relationships • CF 4

TARGET MEASURE:

Review 15 or more large user accounts and conduct a minimum of 500 manual site meter readings

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity - Reviewed	27	15	15	15
Quantity - Read	700	500	500	500

STAFFING:

Attract, develop and retain highly qualified employees.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Provide a minimum of 1,500 employee training hours

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Hours	1,868	1,500	1,500	1,500

PURCHASING - The Program

Mission and Overview:

The Purchasing section is responsible for ensuring the legal, timely and cost-effective purchasing of goods and services. This section also provides support for security and maintenance of the Corporate Office Building.

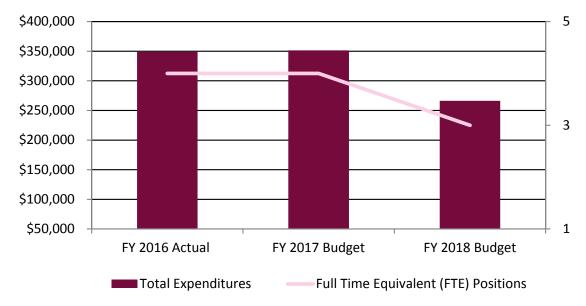
Major Accomplishments FY 2017 by Key Code:

- **CB 4** Added bid specifications and sole source documentation to SharePoint
- **FM 5** Ensured that all purchases were in conformance with State of RI Purchasing Regulations and NBC Purchasing Regulations
- FM 6 Prepared 15 bid proposals and specifications within 30 days
- **FM 6** Assisted with emergency purchases
- **FM 8** Administered the net metering contract and renegotiated the contract for the sale of RECs generated by the wind turbines at Field's Point
- **CF 5** Provided assistance to NBC staff to ensure compliance with State of RI Purchasing Regulations
- **CF 5** Posted bid requests and awards online
- **CF 6** Reviewed new legislation with NBC's Legal department to ensure compliance
- **S 3** Ensured new employees were trained in the Oracle purchasing system

- **CB1** Ensure compliance with Federal and State purchasing laws
- **FM 6** Review and maintain proper preparation of purchasing specifications to ensure competitive bids
- **FM 6** Ensure the timely, efficient and cost effective purchase of goods and services needed to operate, maintain and improve NBC's Facilities

PURCHASING - The Budget

	FY 20	016 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense Personnel Less Capital Reimbursements	\$	346,749 -	\$	347,847 -	\$	263,035
Net Personnel		346,749		347,847		263,035
Operating Supplies/Expense Professional Services Operating Capital		2,286 - -		3,600 - -		3,200 - -
Debt Service Total Expenditures	\$	- 349,035	\$	- 351,447	\$	- 266,235
Expenditures by Funding Source Revenue Operating Capital Transfer Grant	\$	349,035 - -	\$	351,447 - -	\$	266,235 - -
Total Expenditures by Source	\$	349,035	\$	351,447	\$	266,235



PURCHASING - Historical Data

PROGRAM STAFFING (BUDGETED)						
Purchasing Manager	1.0	Purchasing Coordinator	1.0			
Office Administrator	1.0					
3.0 FTEs						

NANCIAL MANAGEMENT:					g financial plann rges are minimize
LACTION FOR ACHIEVEMENT	BY KEY CODE.				
sure goods and services a		ed and proc	essed in a	timely efficie	ent and cost effer
-M 6	re procurcu, reviewe		coscu in a	uniciy, emen	
TARGET MEASURE:					
Process 100% of purcha	se requisitions				
Unit of Measure	FY 2016 Actual	FY 20	16 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	3,013 Requisitions	1	00%	100%	100%
TARGET MEASURE:					
Complete 85% of bid sp		-			
Unit of Measure	FY 2016 Actual		Y 2016 Goa		
Percentage TARGET MEASURE:	89% - 40 Bid Specificati	ons	85%	85%	85%
Ensure contracts are aw	arded within 60 days	s of REOP			
Unit of Measure	FY 2016 Actual		16 Goal	FY 2017 Go	al FY 2018 Go
	60 Days - 36 Contracts		n 60 days	Within 60 da	
TARGET MEASURE:					
Review all contracts thr	-	-			
Unit of Measur		FY 201		Y 2017 Goal	FY 2018 Goal
Percentage	6 Contracts	100)%	100%	100%
		in a custon	er-focuse	d attitude thi	roughout the org
JSTOMER FOCUS: L ACTION FOR ACHIEVEMENT Isure compliance with NBC TARGET MEASURE:	BY KEY CODE: 2's internal controls •	• CF 5			roughout the org
L ACTION FOR ACHIEVEMENT Isure compliance with NBC TARGET MEASURE: Provide Finance Commi	BY KEY CODE: 2's internal controls • ttee with list of requi	• CF 5	ater than \$	\$10,000	
L ACTION FOR ACHIEVEMENT Isure compliance with NBC TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u>	BY KEY CODE: 2's internal controls • ttee with list of requi FY 2016 Actual	• CF 5 isitions grea <u>FY 20:</u>	ater than \$ 1 6 Goal	\$10,000 FY 2017 Goal	FY 2018 Goal
Action for Achievement sure compliance with NBG Farget Measure: Provide Finance Commi	BY KEY CODE: 2's internal controls • ttee with list of requi	• CF 5 isitions grea <u>FY 20:</u>	ater than \$	\$10,000	
L ACTION FOR ACHIEVEMENT sure compliance with NBC TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions	• CF 5 isitions grea <u>FY 20:</u>	ater than \$ 1 6 Goal	\$10,000 FY 2017 Goal	FY 2018 Goal
ACTION FOR ACHIEVEMENT sure compliance with NBG FARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage ACTION FOR ACHIEVEMENT	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE:	• CF 5 isitions grea FY 20:	ater than \$. <mark>6 Goal</mark> 0%	\$10,000 FY 2017 Goal 100%	FY 2018 Goal 100%
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L ACTION FOR ACHIEVEMENT Isure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons	CF 5 isitions great FY 20: 10 sistency, re	ater than \$ 1 <mark>6 Goal</mark> 0% liability an	\$10,000 FY 2017 Goal 100% nd satisfaction	FY 2018 Goal 100%
L ACTION FOR ACHIEVEMENT Isure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT Ihance internal communic TARGET MEASURE:	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more tha	CF 5 isitions great FY 20: 10 sistency, re	ater than \$. <mark>6 Goal</mark> 0% liability an	\$10,000 FY 2017 Goal 100% nd satisfaction	FY 2018 Goal 100%
L ACTION FOR ACHIEVEMENT Isure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT Ihance internal communic TARGET MEASURE: Ensure NBC's fleet does	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more tha	CF 5 isitions greater FY 202 To sistency, reader of the second	ater than \$.6 Goal 0% liability an les that w 5 Goal I	\$10,000 FY 2017 Goal 100% Ind satisfaction eigh less than	FY 2018 Goal 100%
L ACTION FOR ACHIEVEMENT isure compliance with NBC TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT ihance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measure</u>	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47	 CF 5 isitions greater of the second sec	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0	\$10,000 FY 2017 Goal 100% Ind satisfaction eigh less than FY 2017 Goal ≤50	FY 2018 Goal 100% • CF 3 • 8,500 tons FY 2018 Goal ≤50
ACTION FOR ACHIEVEMENT sure compliance with NBG FARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage ACTION FOR ACHIEVEMENT hance internal communic FARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measure</u> Quantity	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47	 CF 5 isitions greater of the second sec	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0	\$10,000 FY 2017 Goal 100% Ind satisfaction eigh less than FY 2017 Goal ≤50	FY 2018 Goal 100% • CF 3 • 8,500 tons FY 2018 Goal
L ACTION FOR ACHIEVEMENT isure compliance with NBC TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT ihance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measure</u>	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47	 CF 5 isitions greater of the second sec	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0	\$10,000 FY 2017 Goal 100% Ind satisfaction eigh less than FY 2017 Goal ≤50	FY 2018 Goal 100% • CF 3 • 8,500 tons FY 2018 Goal ≤50
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L ACTION FOR ACHIEVEMENT Isure compliance with NBC TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT Ihance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measur</u> Quantity TAFFING: L ACTION FOR ACHIEVEMENT	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47 At BY KEY CODE	• CF 5 isitions greating for the second seco	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0 clop and re	510,000 <u>FY 2017 Goal</u> 100% nd satisfaction eigh less than <u>FY 2017 Goal</u> ≤50 etain highly q	FY 2018 Goal 100% • • CF 3 • 8,500 tons FY 2018 Goal ≤50
L ACTION FOR ACHIEVEMENT sure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT hance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measur</u> Quantity TAFFING: L ACTION FOR ACHIEVEMENT ovide professional, techni	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47 At BY KEY CODE cal and/or safety trai	• CF 5 isitions greating for the second seco	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0 clop and re	510,000 <u>FY 2017 Goal</u> 100% nd satisfaction eigh less than <u>FY 2017 Goal</u> ≤50 etain highly q	FY 2018 Goal 100% • • CF 3 • 8,500 tons FY 2018 Goal ≤50
L ACTION FOR ACHIEVEMENT Isure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT Ihance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measur</u> Quantity TAFFING: L ACTION FOR ACHIEVEMENT ovide professional, techni th systems and processes	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47 At BY KEY CODE cal and/or safety trai	• CF 5 isitions greating for the second seco	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0 clop and re	510,000 <u>FY 2017 Goal</u> 100% nd satisfaction eigh less than <u>FY 2017 Goal</u> ≤50 etain highly q	FY 2018 Goal 100% • • CF 3 • 8,500 tons FY 2018 Goal ≤50
L ACTION FOR ACHIEVEMENT Isure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT hance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measur</u> Quantity TAFFING: L ACTION FOR ACHIEVEMENT ovide professional, techni th systems and processes TARGET MEASURE:	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47 At BY KEY CODE cal and/or safety trai • S 3	• CF 5 isitions great FY 201 sistency, reat an 50 vehic FY 201 Stract, developt	ater than \$ 6 Goal 0% liability an les that w 5 Goal I 0 clop and re	510,000 <u>FY 2017 Goal</u> 100% nd satisfaction eigh less than <u>FY 2017 Goal</u> ≤50 etain highly q	FY 2018 Goal 100% • • CF 3 • 8,500 tons FY 2018 Goal ≤50
L ACTION FOR ACHIEVEMENT Isure compliance with NBG TARGET MEASURE: Provide Finance Commi <u>Unit of Measure</u> Percentage L ACTION FOR ACHIEVEMENT Ihance internal communic TARGET MEASURE: Ensure NBC's fleet does <u>Unit of Measur</u> Quantity TAFFING: L ACTION FOR ACHIEVEMENT ovide professional, techni th systems and processes	BY KEY CODE: C's internal controls • ttee with list of requi FY 2016 Actual 167 Requisitions BY KEY CODE: ations to ensure cons not include more that FY 2016 Actual 47 At BY KEY CODE cal and/or safety trai • S 3 4 employee training	• CF 5 isitions great FY 201 sistency, reat an 50 vehic FY 201 Stract, developt	ater than \$ 6 Goal 0% liability and les that w 5 Goal I 0 10p and re imize tear	510,000 <u>FY 2017 Goal</u> 100% nd satisfaction eigh less than <u>FY 2017 Goal</u> ≤50 etain highly q	FY 2018 Goal 100% • • CF 3 • 8,500 tons FY 2018 Goal ≤50

GENERAL ADMINISTRATION - The Program

Mission and Overview:

The General Administration section includes overhead items such as unemployment, insurance, workers' compensation insurance, and property management activities related to the Corporate Office Building and NBC Campus. Other overhead support items such as postage and telephones are also budgeted in this section. Debt service represents the most significant element of the General Administration budget.

Major Accomplishments FY 2017 by Key Code:

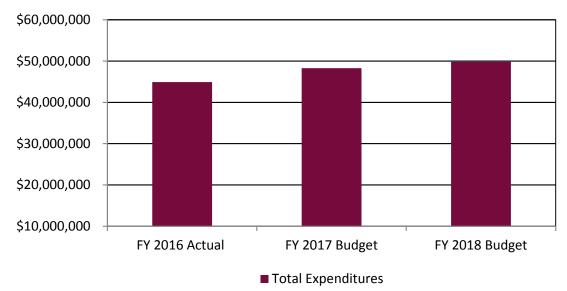
- **CB 5** Completed the reconfiguration of the fourth floor and the PP&R areas of the COB
- **CB 5** Completed monthly analysis of COB maintenance expense
- **CB 5** Coordinated with other NBC sections to ensure the continuous update and enhancement of security
- CB 5 Completed proper preventive and corrective maintenance at the COB
- **CB 5** Maintained and tracked the inventory associated with HVAC parts and components
- FM 8 Assisted with the LED upgrade under the NBC Energy Efficiency Upgrades (Project 13100C)
- **CF 2** Managed service request logs and ensured timely responses

- CB 3 Ensure all necessary security enhancements are completed
- **CB 5** Provide cost-effective property management of the Corporate Office Building and NBC Campus
- **CF 2** Ensure timely completion of service requests

GENERAL ADMINISTRATION - The Budget

	FY	2016 Actual	FY 2	2017 Budget	FY 2	2018 Budget
Expenditures by Element of Expense						
Personnel	\$	177,341	\$	530,168	\$	412,609
Less Capital Reimbursements		-		-		-
Net Personnel		177,341		530,168		412,609
Operating Supplies/Expense		1,405,815		2,071,593		2,051,997
Professional Services		312,860		372,000		365,000
Operating Capital		128,249		145,000		190,000
Debt Service		42,903,588		45,137,622		46,786,894
Total Expenditures	\$	44,927,853	\$	48,256,383	\$	49,806,500
Expenditures by Funding Source						
Revenue	\$	44,799,604	\$	48,111,383	\$	49,616,500
Operating Capital Transfer		128,249		145,000		190,000
Grant		-		-		-
Total Expenditures by Source	\$	44,927,853	\$	48,256,383	\$	49,806,500

GENERAL ADMINISTRATION - Historical Data



PROGRAM STAFFING (BUDGETED)

Responsibilities are executed by Purchasing Staff

GENERAL ADMINISTRATION - Performance Data

	Operate me	intain and proto	ct our collection	and treatment a	uctoms t
CORE BUSINESS:	=	-		n and treatment sy ents are met or su	
	choure that	un state una res	acranequineina		pusseur
GOAL ACTION FOR ACHIEVEMENT B	Y KEY CODE:				
Maintain NBC's asset manage	ment program for inf	rastructure and a	assets, ensure in	itegrity and maxim	ize the
investment • CB 5					
TARGET MEASURE:					
Perform quarterly facility					
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Elevators	8	Quarterly	Quarterly	Quarterly	
Fire Alarms	8	Quarterly	Quarterly	Quarterly	
TARGET MEASURE:	maintananaa kaguaa	ta within two wo	oka		
Complete 85% of building Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Percentage	90% - 88 Requests	85%	85%	85%	
Tercentage	50% 00 Acquests	0370	0570	0370	
FINANCIAL MANAGEMENT:	Manag	e NBC's finances	through strong	g financial plannin	g and
	со	ntrols such that s	sewer user char	ges are minimized	l.
OAL ACTION FOR ACHIEVEMENT B					
Develop and manage NBC's o		udgets to maxim	iize benefits, mi	nimize expense an	d
unplanned expenditures • FN	14				
TARGET MEASURE:					
Complete 100% of planne	-				
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Budgeted	7	100%	100%	100%	
Planned	6				
TARGET MEASURE:		مامينا والمعرب ومعامله			
Spend \$8/sq. ft. or less or Unit of Measure	FY 2016 Actual	FY 2016 Goal		FY 2018 Goal	
Dollars per square fo		\$8.00	\$8.00	\$8.00	
Donais per square it	JUL \$5.65	Ş8.00	<i>3</i> 8.00	30.00	
GOAL ACTION FOR ACHIEVEMENT B	Y KEY CODE:				
Evaluate savings opportunitie	s and optimize NBC o	perations and pro	ocesses • FM 8		
TARGET MEASURE:		p			
Ensure renewable energy	credits are bundled a	and transferred a	t least semi-anr	nually	
	FY 2016 Actual				
Frequency	2 – 4,147 RECs	≥2	≥2	≥2	
	,				
CUSTOMER FOCUS:	Maintain	a customer-focu	ised attitude th	roughout the orga	nizatior
		-		5	
GOAL ACTION FOR ACHIEVEMENT B	Y KEY CODE:				
Ensure compliance with NBC	internal controls • CF	5			
TARGET MEASURE:					
Ensure 100% of NBC reco	rds are recorded and	archived as requ	ired		
Ensure 100% of NBC reco Unit of Measure	rds are recorded and FY 2016 Actual	archived as requ FY 2016 Goal	ired FY 2017 Goal	FY 2018 Goal	
		-		FY 2018 Goal	

Improve and enhance internal and external communication to increase understanding of "who we are" and "what we do".

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

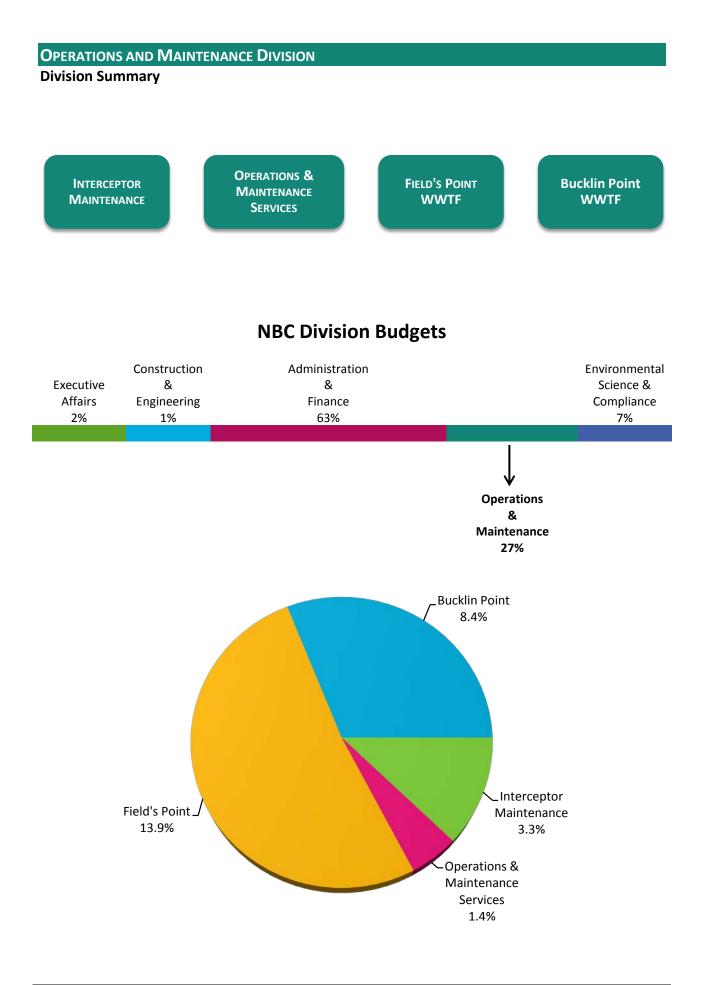
Strengthen and expand NBC's positive relations with key stakeholders (customers, Board, elected officials/ delegates, regulatory officials and the public • C 5

TARGET MEASURE:

Process 100% of outgoing mail daily

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	100% - 3,012 Pieces	100%	100%	100%

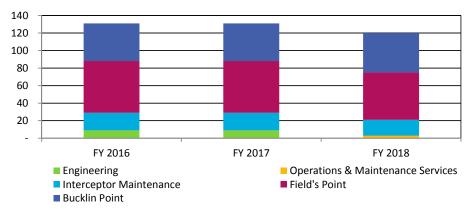




OPERATIONS AND MAINTENANCE DIVISION - The Program Divison Summary

Purpose and Overview:

The Operations and Maintenance Division is responsible for managing, operating and maintaining NBC's wastewater treatment facilities, infrastructure, collection system and Asset Management Program. This Division also ensures process control for continuous collection and treatment of wastewater throughout NBC's service area in accordance with all State and Federal regulatory requirements. This Division also maintains the Asset Management Program to ensure proper maintenance, repair and replacement of NBC's assets.



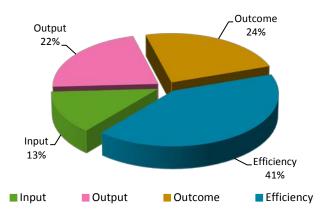
Budgeted Positions (FTEs) OPERATIONS AND MAINTENANCE DIVISION

Significant Budget Modifications:

The FY 2018 Operations and Maintenance Division budget decreased by approximately 3.9% or \$1.0 million from the FY 2017 budget. Personnel decreased by \$220,377 or 1.8% due to organizational changes and funding for nine fewer budgeted positions compared to the prior year. Operating supplies and expense and professional services increased by \$101,888 and includes service agreements for electrical testing and the Field's Point wind turbines. Operating Capital reflects a decrease of \$907,100 from the prior year.

Operations Division Performance Data Summary:

The chart below illustrates the Operations and Maintenance Division's Performance Data by type of measure. The measures can be found in the individual sections following the division summary. In this Division, Outcome and Efficiency make up 65% of the performance measures.

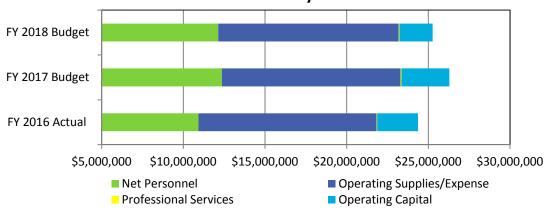


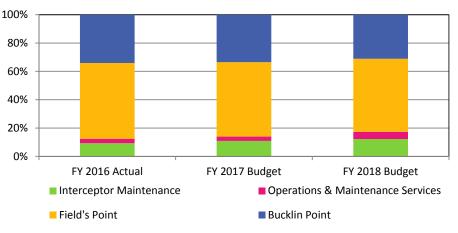
Percentage of Performance Measurement Types OPERATIONS & MAINTENANCE DIVISION

OPERATIONS AND MAINTENANCE DIVISION - The Budget Division Summary

	FY 2	2016 Actual	FY 2	017 Budget	FY 2	018 Budget
Expenditures by Element of Expense						
Personnel	\$	11,327,578	\$	12,709,983	\$	12,212,414
Less Capital Reimbursements		(396,642)		(356,245)		(79,053)
Net Personnel		10,930,936		12,353,738		12,133,361
Operating Supplies/Expense		10,900,016		10,943,053		11,054,941
Professional Services		36,938		52,300		42,300
Operating Capital		2,497,674		2,939,500		2,032,400
Debt Service		-		-		-
Total Expenditures	\$	24,365,564	\$	26,288,591	\$	25,263,002
Expenditures by Funding Source						
Revenue	\$	21,867,890	\$	23,349,091	\$	23,230,602
Operating Capital Transfer		2,497,674		2,939,500		2,032,400
Grant		-		-		-
Total Expenditures by Source	\$	24,365,564	\$	26,288,591	\$	25,263,002

Division's Cost By Element





Percent of Division's Budget by Section

INTERCEPTOR MAINTENANCE - The Program

Mission and Overview:

The Interceptor Maintenance (IM) section is responsible for maintaining NBC's infrastructure and collection system throughout the NBC service area to ensure sufficient capacity and transport of flow to the WWTF's in compliance with State and Federal requirements. The section performs various maintenance and inspection tasks as mandated by the RIPDES permit which include: validation of infrastructure and proper flow conditions; video monitoring inspections; correction of infrastructure impediments; performing minor construction repairs; monitoring any new development projects that may impact flows; assistance to communities as needed; general oversight of the entire district's sewage flow conditions; as well as numerous other activities required or deemed necessary to ensure flow conditions are uninterrupted.

Major Accomplishments FY 2017 by Key Code:

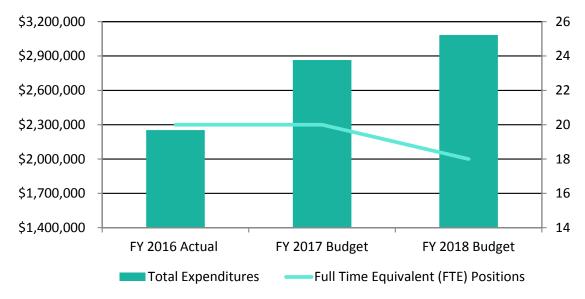
- **CB 5** Serviced approximately 50% of the flow meters to ensure proper operation
- **CB 5** Inspected over one mile of interceptors throughout the service area
- **CB 5** Replaced an estimated 120' of 20" diameter force main and restored an estimated 370' of interceptors to "like-new" condition
- **CB 5** Removed approximately 163 tons of sediment built up in the collection system to regain transport capacity
- **CB 5** Inspected over 1,200 regulators to insure proper system operations
- **EP 2** Incurred no dry weather bypass events
- **EP 2** Maintained netting facilities and removed approximately 19 tons of material in CSOs, preventing it from reaching the waterbody
- **CF 2** Provided 26 man-hours of assistance to communities to aid in emergency situations
- **S 3** Provided an estimated 19 hours of training for NBC staff

- **CB 1** Comply with 100% of RIPDES permit requirements for the collection system
- **CB 5** Continue to improve efficiencies in servicing flow meters to ensure 100% of sites serviced
- **S 3** Encourage staff to attend various training programs with a goal of completing 200 total training hours

INTERCEPTOR MAINTENANCE - The Budget

	FY 2	016 Actual	FY 20	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,429,445	\$	1,761,773	\$	1,665,328
Less Capital Reimbursements		(34,455)		(5,518)		(31,000)
Net Personnel		1,394,990		1,756,255		1,634,328
Operating Supplies/Expense		442,957		600,638		1,189,073
Professional Services		9,126		15,800		15,800
Operating Capital		411,243		492,000		244,000
Debt Service		-		-		-
Total Expenditures	\$	2,258,316	\$	2,864,693	\$	3,083,201
Expenditures by Funding Source						
Revenue	\$	1,847,073	\$	2,372,693	\$	2,839,201
Operating Capital Transfer		411,243		492,000		244,000
Grant		-		-		-
Total Expenditures by Source	\$	2,258,316	\$	2,864,693	\$	3,083,201

INTERCEPTOR MAINTENANCE - Historical Data



PROGRAM STAFFING (BUDGETED)								
Interceptor Maintenance Manager	1.0	Interceptor Maintenance Inspector	1.0					
Assistant Interceptor Maintenance Manager	1.0	Instrumental Engineer	1.0					
Clerk	1.0	Operator	10.0					
Environmental Engineer	1.0	Interceptor Maintenance Senior Supervisor	1.0					
		Senior Technical Assistant	1.0					
	18.0 FTEs							

INTERCEPTOR MAINTENANCE - Performance Data

CORE BUSINESS:		-		-	t our collecti			
		to ens	ure that a		nd Federal re	quiremen	ts are met o	or
				5	surpassed.			
GOAL ACTION FOR ACHIEVEMENT								
Ensure compliance with all St			tions nerr	nits cons	ent agreeme	nts cartifi	cations NB	iد ا
regulations and reporting rec		-	nions, pen	11113, CONS	ent agreeme	ints, certin		
TARGET MEASURE:	Junchic							
Comply with RIPDES per	mit reau	uired inspection	ns and rend	orting				
Unit of Measure	-	16 Actual	FY 201	-	FY 2017	Goal	FY 2018 G	ioal
Percentage - Event Reporting	100%	- 2 Events	10	0%	100%	,)	100%	
Pump Station Inspections	v	/eekly	Wee	ekly	Week	y	Weekly	/
Regulators Inspections		nonthly	Bimo		Bimont	hly	Bimonth	
Tide Gates Inspections	М	onthly	Mor		Month	ly	Month	
Sump Pumps Inspections	Qu	arterly	Quar	terly	Quarte	rly	Quarter	ly
Hurricane Barrier Inspections	Pre & F	Post Season	Pre & Pos	st Season	Pre & Post	Season	Pre & Post S	eason
Catch Basins Inspections	Sem	iannually	Semiar	nnually	Semiann	ually	Semiannu	ally
TARGET MEASURE:								
Submit BMP report semi	i-annual	ly and CMOM i	eport by d	ue date				
Unit of Measure	e	FY 2016 Actual	FY 2	016 Goal	FY 2017 Go	al FY 20	18 Goal	
Frequency - BMP Re		2		2	2	_	2	
Due Date - CMOM Re	eport	1/31/2016	1/3	1/2016	1/31/2017	1/3	1/2018	
GOAL ACTION FOR ACHIEVEMENT Maintain NBC's asset manage			astructure	and asse	ts, ensure int	egrity and	l maximize	the
investment • CB 5								
TARGET MEASURE:								
Address emergency situa								
Unit of Measure		016 Actual	FY 2016		Y 2017 Goal	FY 2018 (
Percentage TARGET MEASURE:	72 EI	mergencies	100%	6	100%	100%)	
Perform at least 90% of	workor	dorc						
Unit of Measure		uers FY 2016 A	ctual	FY 2016	Goal EV 20	17 Goal	FY 2018 Go	al
Preventative Work Orders	-			FT 2010		17 00ai	FT 2018 GU	
Corrective Work Orders C				90%	9	0%	90%	
Quantity - Staff Ho	•	7,563		5,000) 5.	000	5,000	
		.,		-,	,		-,	
ENVIRONMENTAL PERFORMAN	ICE:	Con	tinuously e	valuate I	VBC environn	nental per	formance	to
		identify,	quantify a	ınd minin	nize NBC imp	acts to th	e environm	ent in
				a cost	effective ma	nner.		
GOAL ACTION FOR ACHIEVEMENT								
Minimize environmental imp	acts and	l implement co	nservation	and sust	ainability me	asures • E	P 1	
TARGET MEASURE:								
Alleviate dry weather by								
	•				2017 0	FV 6646 -	1	
Unit of Measure	•	016 Actual	FY 2016 G		2017 Goal	FY 2018 G	oal	
Hours	•				2017 Goal ≤6	FY 2018 G ≤6	oal	
Hours Target Measure:	e FY 2	016 Actual 0.6	FY 2016 G ≤6	ioal FY			oal	
Hours	E FY 2 CSO tra	016 Actual 0.6	FY 2016 G ≤6	ioal FY f event				

FINANCIAL MANAGEMENT:	-	-		inancial planning es are minimized				
GOAL ACTION FOR ACHIEVEMENT BY Develop and manage NBC's ope unplanned expenditures • FM 4 TARGET MEASURE:	erating and capital k 1	oudgets to maxin	nize benefits, mi	inimize expense ar	nd			
Complete 100% of planned Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal				
Budgeted Completed	6 6	100%	100%	100%				
CUSTOMER FOCUS:	Maintain	a customer-focu	ised attitude th	roughout the orga	nization.			
GOAL ACTION FOR ACHIEVEMENT BY Maintain programs and conduc TARGET MEASURE: Provide assistance to NBC Unit of Measure	t projects that give			FY 2018 Goal				
Hours	51.5	75	40	40				
	permits within 3 bus	iness days Y 2016 Goal	FY 2017 Goal	FY 2018 Goal	_			
Timeframe 3 Bu	usiness Days ≤3	Business Days	≤3 Business Days	≤3 Business Days	5			
STAFFING:	Att	tract, develop ar	nd retain highly	qualified employe	es.			
 GOAL ACTION FOR ACHIEVEMENT BY KEY CODE: Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3 TARGET MEASURE: Provide staff a minimum of 100 technical/standard operating procedures training hours Unit of Measure FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 								
Hours	125	100	100	100				
GOAL ACTION FOR ACHIEVEMENT BY Provide a healthy and safe work TARGET MEASURE: Schedule quarterly safety o Unit of Measure	king environment •		oost minutes					

OPERATIONS AND MAINTENANCE SERVICES – The Program

Mission and Overview:

The Operations and Maintenance Services section is responsible for the management of NBC's two wastewater treatment facilities and interceptor maintenance. This section ensures compliance with all State and Federal regulations, reporting requirements, consent agreements and permits. The Operations and Maintenance Services section maintains the Asset Management Program and the control systems to allow for continuous operations and process control.

Major Accomplishments FY 2017 by Key Code:

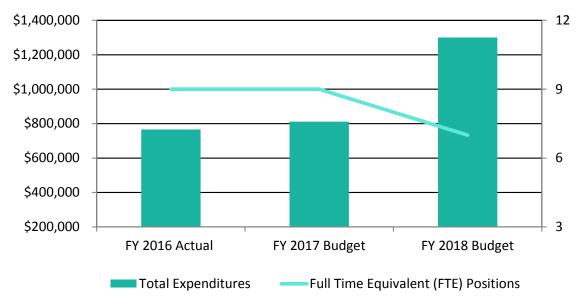
- **CB 1** Processed 7 RIDEM regulatory permits for the wastewater treatment plants
- **CB1** Submitted the annual biosolids dry tons report to RIDEM
- **CB 5** Developed the 2015 Asset Condition Report for NBC's Fiscal Sustainability Plan
- **S 5** Successfully implemented a succession plan for the Operations and Maintenance Division
- **S 4** Facilitated three Workplace Injury Prevention programs

- **CB1** Ensure Operations and Maintenance complies with all State and Federal Rules and Regulations
- **CB 5** Utilize the asset management program to incorporate new assets into NBC's insurance policies
- **CB 5** Update and maintain NBC's Asset Management Plan

	FY 2	016 Actual	FY 20	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,037,929	\$	1,042,039	\$	861,590
Less Capital Reimbursements		(353,132)		(350,727)		(48,053)
Net Personnel		684,797		691,312		813,537
Operating Supplies/Expense		58,716		42,100		292,273
Professional Services		5,419		8,000		-
Operating Capital		17,687		70,000		195,000
Debt Service		-		-		-
Total Expenditures	\$	766,619	\$	811,412	\$	1,300,810
Expenditures by Funding Source						
Revenue	\$	748,932	\$	741,412	\$	1,105,810
Operating Capital Transfer		17,687		70,000		195,000
Grant		-		-		-
Total Expenditures by Source	\$	766,619	\$	811,412	\$	1,300,810

OPERATIONS AND MAINTENANCE SERVICES - The Budget

OPERATIONS AND MAINTENANCE SERVICES - Historical Data



PROGRAM STAFFING (BUDGETED)							
Director of Operations and Maintenance	1.0	Control System Administrator	1.0				
Asset Management Administrator	1.0	Control System Associate	1.0				
Assistant Control System Administrator	1.0	Operations and Maintenance Fiscal Coordinator	1.0				
		Operations and Maintenance Insurance Coordinator	1.0				
		7.0 FTEs					

OPERATIONS AND MAINTENANCE SERVICES - Performance Data

CORE BUSINESS:		-	maintain and pro		
		to en	sure that all State	and Federal red surpassed.	quirements are met o
				541 pusseu.	
SOAL ACTION FOR ACHIEVEME			lations normits a	ancont agrees	nte cortifications ND
Ensure compliance with a regulations and reporting			iacions, permits, co	uisent agreeme	nts, certifications, NB
TARGET MEASURE:	requireme	CD I			
Ensure the Dry Tons r	report is su	bmitted to RID	DEM annually		
Unit of Mea		2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Timefram	е	3/3/2016	Annual	Annual	Annual
TARGET MEASURE:					
Process 100% of regu					
Unit of Measur	-	2016 Actual	FY 2016 Goal		
Percentage TARGET MEASURE:	7 Keg	ulatory Permits	100%	100%	100%
Complete and submit	CRMC and	nual report			
Unit of Meas		2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Due Date		2/29/2015	12/31/2015	12/31/2016	12/31/2017
-					and licensing requirer
Unit of Mea	sure FY 2	2016 Actual	FY 2016 GOAL	FY ZULZ GOAL	
Unit of Meas Quantity-F		2016 Actual 4	FY 2016 Goal 100%	FY 2017 Goal 100%	100%
	=P				
Quantity-F	=P	4 3 <i>Mana</i>	100% 100% Ige NBC's finances	100% 100% through strong	100%
Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, e accounts receivable • FM TARGET MEASURE:	TP 3P ENT BY KEY (effectivene 3	4 3 <i>Mana</i> co CODE: ss, and accura	100% 100% Inge NBC's finances Introls such that s cy of NBC's rate st	100% 100% through strong sewer user charge ructures and col	100% 100% I financial planning ar ges are minimized.
Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, e accounts receivable • FM	EP 3P E NT BY KEY (effectivene 3 sufficient in	4 3 <i>Mana</i> co CODE: ss, and accura	100% 100% Inge NBC's finances Introls such that s cy of NBC's rate st	100% 100% through strong sewer user charge ructures and col	100% 100% I financial planning ar ges are minimized.
Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, e accounts receivable • FM TARGET MEASURE: Evaluate and ensure s	EP BP ENT BY KEY (effectivene 3 sufficient in sure FY 2	4 3 <i>Mana</i> co CODE: ss, and accura nsurance polici	100% 100% The second se	100% 100% through strong sewer user char ructures and col ior to expiration	100% 100% financial planning ar ges are minimized. Ilection processes to r
Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, of accounts receivable • FM TARGET MEASURE: Evaluate and ensure s Unit of Measure	EP BP ENT BY KEY (effectivene 3 sufficient in sure FY 2	4 3 <i>Mana</i> co CODE: ss, and accura nsurance polici 2016 Actual	100% 100% The second se	100% 100% through strong sewer user charg ructures and col ior to expiration FY 2017 Goal	100% 100% financial planning ar ges are minimized. llection processes to r
Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, of accounts receivable • FM TARGET MEASURE: Evaluate and ensure s Unit of Measure	EP BP ENT BY KEY (effectivene 3 sufficient in sure FY 2	4 3 <i>Mana</i> co CODE: ss, and accura nsurance polici 2016 Actual Renewals	100% 100% IDENTIFY STATE STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATES IDENTIFY STATES I	100% 100% through strong sewer user charge ructures and col ior to expiration FY 2017 Goal 100%	100% 100% financial planning ar ges are minimized. llection processes to r
Quantity-F Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, of accounts receivable • FM TARGET MEASURE: Evaluate and ensure s Unit of Measu Percentag	EP BP ENT BY KEY (effectivene 3 sufficient in sure FY 2	4 3 <i>Mana</i> co CODE: ss, and accura nsurance polici 2016 Actual Renewals	100% 100% IDENTIFY STATE STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATE IDENTIFY STATES IDENTIFY STATES I	100% 100% through strong sewer user charge ructures and col ior to expiration FY 2017 Goal 100%	100% 100% financial planning ar ges are minimized. llection processes to r FY 2018 Goal 100%
Quantity-F Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, of accounts receivable • FM TARGET MEASURE: Evaluate and ensure s Unit of Meas Percentag CUSTOMER FOCUS: GOAL ACTION FOR ACHIEVEME Provide prompt, courteou TARGET MEASURE:	ENT BY KEY (effectivene 3 sufficient in sure FY 2 ge 11	4 3 Mana ca CODE: ss, and accura nsurance polici 2016 Actual Renewals Maintain CODE: t and education	100% 100% age NBC's finances ontrols such that s cy of NBC's rate st ies are in effect pr FY 2016 Goal 100%	100% 100% through strong sewer user charg ructures and col ior to expiration FY 2017 Goal 100%	100% 100% financial planning ar ges are minimized. llection processes to r FY 2018 Goal 100%
Quantity-F Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, 6 accounts receivable • FM TARGET MEASURE: Evaluate and ensure s <u>Unit of Measures</u> Percentag CUSTOMER FOCUS: GOAL ACTION FOR ACHIEVEME Provide prompt, courteou TARGET MEASURE: Process 100% of insu	ENT BY KEY (Ent BY KEY (Effectivene 3 sufficient in sure FY 2 ge 11 ENT BY KEY (us, efficient rance claim	4 3 Mana Co CODE: ss, and accura hsurance polici 2016 Actual Renewals Maintain CODE: t and education	100% 100% IDENTIFY OF CONTROLS IDENTIFY OF CONTRE	100% 100% through strong sewer user charg ructures and col ior to expiration FY 2017 Goal 100%	100% 100% financial planning ar ges are minimized. Ilection processes to r FY 2018 Goal 100%
Quantity-F Quantity-F Quantity-F FINANCIAL MANAGEMENT: GOAL ACTION FOR ACHIEVEME Maximize the efficiency, of accounts receivable • FM TARGET MEASURE: Evaluate and ensure s Unit of Meas Percentag CUSTOMER FOCUS: GOAL ACTION FOR ACHIEVEME Provide prompt, courteou TARGET MEASURE:	ENT BY KEY (effectivene 3 sufficient in sure FY 2 ge 11 ENT BY KEY (us, efficient rance claim sure FY	4 3 Mana ca CODE: ss, and accura nsurance polici 2016 Actual Renewals Maintain CODE: t and education	100% 100% age NBC's finances ontrols such that s cy of NBC's rate st ies are in effect pr FY 2016 Goal 100%	100% 100% through strong sewer user charg ructures and col ior to expiration FY 2017 Goal 100%	100% 100% financial planning ar ges are minimized. llection processes to r FY 2018 Goal 100%

Staffing:	Att	ract, develop an	d retain highly	qualified emplo
GOAL ACTION FOR ACHIEVEMENT BY	Key Const			
		ffaati	niestien + C2	
Foster a positive working env	aronment through e	mective commu	nication • SZ	
TARGET MEASURE:				
Monthly planning/sched				
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	24	24	24	24
with systems and processes • S TARGET MEASURE: Attend a minimum of 1 pro		ession per year		
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	1	1	1	1
GOAL ACTION FOR ACHIEVEMENT BY Provide a healthy and safe wor TARGET MEASURE: Facilitate Workplace Injury	king environment •			
	Prevention program	าร		

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	3	3	3	3

FIELD'S POINT - The Program

Mission and Overview:

The Field's Point WWTF is the largest wastewater treatment facility in Rhode Island and treats an average of 39 MGD. Flows up to 77 MGD receive full tertiary treatment. Flows greater than 77 MGD are initially sent to the CSO Tunnel system. If flows in excess of 77 MGD continue and the Tunnel storage has reached its holding capacity, then that excess flow will be pumped to the treatment plant and receive primary treatment and disinfection. Field's Point operates the CSO tunnel facilities to optimize, capture and treat up to 65 MGD. The Operations Staff efficiently and effectively operates the facility to produce the highest quality effluent to meet or exceed RIPDES permit requirements. Operations must ensure that all process functions are constantly optimized in order to meet each of the permit requirements.

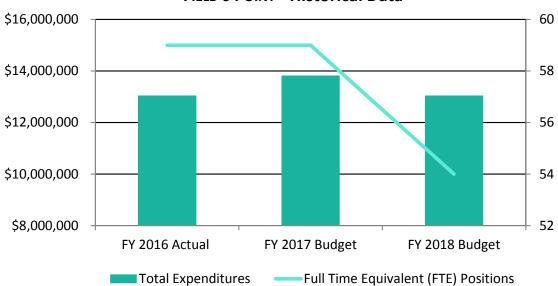
Major Accomplishments FY 2017 by Key Code:

- **CB 1** Achieved the seasonal permit limit for total nitrogen (5 mg/l) in May 2016 through October 2016
- **CB1** Optimized the IFAS process to ensure compliance with the total seasonal nitrogen permit limits, RIPDES permits and consent agreements
- **CB1** Optimized operation of the facilities to safely allow additional gallons of leachate flow into the system
- **S 3** Developed a basic training assessment tools checklist for all areas of the plant to identify training needs
- **S 4** Implemented confined space entry methods and purchased OSHA compliant fall protection and retrieval equipment

- **CB 1** Meet or exceed new RIPDES discharge monitoring permit requirements
- **CB 2** Integrate (Project 13000C) Final Clarifier Improvements and (Project 10908C) Blower Improvements Phase II and minimize operational disruptions
- **CB 5** Update the Master Control Panel (MCP) and the blower MCP to achieve the most open valve process control strategy
- **CB 5** Continue maintenance efforts to protect infrastructure at the CSO facilities, gate and screenings structures, remote pumping stations and flow monitoring stations
- **S 3** Implement basic training assessment tools checklist for all areas of the plant to identify training needs and provide instruction as needed
- **S 4** Minimize the number of OSHA reportable injuries through continued safety awareness training

FIELD'S POINT - The Budget

	FY 2	2016 Actual	FY 2	017 Budget	FY 2	018 Budget
Expenditures by Element of Expense						
Personnel	\$	4,899,389	\$	5,486,611	\$	5,174,133
Less Capital Reimbursements		(9 <i>,</i> 055)		-		-
Net Personnel		4,890,334		5,486,611		5,174,133
Operating Supplies/Expense		7,069,136		7,036,547		7,090,565
Professional Services		10,629		14,500		14,500
Operating Capital		1,070,377		1,269,000		753,400
Debt Service		-		-		-
Total Expenditures	\$	13,040,476	\$	13,806,658	\$	13,032,598
Expenditures by Funding Source						
Revenue	\$	11,970,099	\$	12,537,658	\$	12,279,198
Operating Capital Transfer		1,070,377		1,269,000		753,400
Grant		-		-		-
Total Expenditures by Source	\$	13,040,476	\$	13,806,658	\$	13,032,598



PROGRAM STAFFING (BUDGETED)								
Operations Manager	1.0	Maintenance Supervisor	2.0					
Assistant Operations Manager	1.0	Mechanic	11.0					
Clerk	1.0	Operations and Maintenance Coordinator	1.0					
Electronics and Instrumentation Technician	2.0	Operations and Maintenance Technician	1.0					
Electrician	3.0	Operations Supervisor	5.0					
Fleet Mechanic	1.0	Operator	11.0					
Inventory Control Clerk	2.0	Process Monitor	8.0					
Lead Electrician	1.0	Senior Electronics and Instrumentation Technician	1.0					
Maintenance Manager	1.0	Senior Process Monitor	1.0					
	!	54.0 FTEs						

FIELD'S POINT - Historical Data

FIELD'S POINT - Performance Data

	0-	anata manint	ate and a	"at act a	ur collection a	ad transformer and an atom
CORE BUSINESS:						nd treatment syste s are met or surpas
	C.	isure that a		arcucru	in equilement	s are met or surpa.
GOAL ACTION FOR ACHIEVEMENT BY	KEY CODE:					
Ensure compliance with all Stat	e and Fed	eral regulation	ons, perm	its, conse	ent agreement	s, certifications, NE
regulations and reporting requi		-	<i>*</i> •		0	
TARGET MEASURE:						
Minimize discharge parame	eters viola	tions				
Unit of Measure		2016 Actual	FY 20	16 Goal	FY 2017 Goal	FY 2018 Goal
TSS Violations		0		0	0	<2
BOD Violations		0		0	0	<2
Fecal Coliform Violatio	ns	0		0	0	<2
TARGET MEASURE:						
Ensure residual chlorine co	mplies wit	th permit lim	it of 65 pa	arts per b	oillion	
Unit of Measure	FY	2016 Actual	FY 2	016 Goal	FY 2017 Goa	I FY 2018 Goal
Average Parts per Billion (ppb)	1.5		≤65	≤65	≤65
TARGET MEASURE:						
Achieve total seasonal nitre	ogen perm	nit limit of 5 r	ng/l			
Unit of Measure	FY 2016	Actual F	Y 2016 Go	al FY 2	2017 Goal F	/ 2018 Goal
mg/l	3.90	5	<5		<5	<5
TARGET MEASURE:						
Ensure effluent is treated a	is required	l by permit li	mits			
Unit of Measure	FY	2016 Actual	FY 2	016 Goal	FY 2017 Goa	I FY 2018 Goal
TSS - mg/l		4.35		<4	<6	<30
Fecal Coliform - MPN/10	0ml	2 .08		2.5	3	3
BOD - mg/l		3.99		4	6	<30
TARGET MEASURE:						.
Ensure treatment of waste	water and	stormwater	collected	through	the Tunnel Pu	mp Station
				-		
Unit of Measure	FY 2016 /	Actual	FY 2016 Go	-	2017 Goal F	Y 2018 Goal
		Actual		-		
Unit of Measure Gallons	FY 2016 A	Actual I	FY 2016 Go	-	2017 Goal F	Y 2018 Goal
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY	FY 2016 A 1,108.29 Key Code:	Actual I	FY 2016 Go 100%	al FY:	2017 Goal F 100%	Y 2018 Goal 100%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem	FY 2016 A 1,108.29 Key Code:	Actual I	FY 2016 Go 100%	al FY:	2017 Goal F 100%	Y 2018 Goal 100%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY	FY 2016 A 1,108.29 Key Code:	Actual I	FY 2016 Go 100%	al FY:	2017 Goal F 100%	Y 2018 Goal 100%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5 TARGET MEASURE	FY 2016 / 1,108.29 KEY CODE:	Actual	FY 2016 Go 100%	al FY:	2017 Goal F 100%	Y 2018 Goal 100%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5	FY 2016 / 1,108.29 KEY CODE:	Actual	FY 2016 Go 100%	al FY:	2017 Goal F 100%	Y 2018 Goal 100%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of Unit of Measure	FY 2016 / 1,108.29 KEY CODE: nent progr	Actual MG am for infras ders FY 2016 Ac	FY 2016 Go 100% tructure a tual	al FY:	2017 Goal F 100% s, ensure integ	Y 2018 Goal 100% grity and maximize
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of	FY 2016 / 1,108.29 KEY CODE: nent progr	Actual Ac	FY 2016 Go 100% tructure a tual	nd asset	2017 Goal F 100% s, ensure integ Goal FY 201	y 2018 Goal 100% grity and maximize 7 Goal FY 2018 G
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of Unit of Measure Preventative Maintenance Work Corrective Maintenance Work	FY 2016 / 1,108.29 KEY CODE: nent progr of work or	Actual MG am for infras ders FY 2016 Ac 89% (11,5 11% (1,30	FY 2016 Go 100% tructure a tual 56) 67)	and asset FY 2016 90%	2017 Goal F 100% s, ensure integ Goal FY 201	Y 2018 Goal 100% grity and maximize 7 Goal FY 2018 Go 1% 90%
Unit of Measure Gallons Gallons Goal Action For Achievement By Maintain NBC's asset managem investment • CB 5 Target Measure Perform no less than 90% of Unit of Measure Preventative Maintenance Work Corrective Maintenance Work Total Staff Hours	FY 2016 / 1,108.29 KEY CODE: nent progr of work or	Actual 1 MG am for infras ders FY 2016 Ac 89% (11,5	FY 2016 Go 100% tructure a tual 56) 67)	nd asset	2017 Goal F 100% s, ensure integ Goal FY 201	y 2018 Goal 100% grity and maximize 7 Goal FY 2018 G
Unit of Measure Gallons Gallons Goal Action For Achievement by Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of Unit of Measure Preventative Maintenance Work Corrective Maintenance Work Total Staff Hours TARGET MEASURE:	FY 2016 A 1,108.25 KEY CODE: nent progr of work or rk Orders Orders	Actual Actual AG am for infras ders FY 2016 Ac 89% (11,5: 11% (1,3: 88% (3,5)	FY 2016 Go 100% tructure a tual 56) 67) 72)	and asset FY 2016 90% 80%	2017 Goal F 100% s, ensure integ Goal FY 201 5 90 5 80	Y 2018 Goal 100% grity and maximize 7 Goal FY 2018 Go 1% 90%
Unit of Measure Gallons Gallons Goal Action For Achievement By Maintain NBC's asset managem investment • CB 5 Target Measure Perform no less than 90% of Unit of Measure Preventative Maintenance Work Corrective Maintenance Work Total Staff Hours	FY 2016 / 1,108.29 KEY CODE: nent progr of work or rk Orders c Orders	Actual MG MG am for infras ders FY 2016 Ac 89% (11,5) 11% (1,3) 88% (3,5) perating Capital MG MG MG MG MG MG MG MG MG MG	FY 2016 Go 100% tructure a tual 56) 67) 72) tal Budget	and asset FY 2016 90% 80% t for trea	2017 Goal F 100% s, ensure integ Goal FY 201 6 90 6 80 tment plants	Y 2018 Goal 100% grity and maximize 7 Goal FY 2018 G 1% 90% 80%
Unit of Measure Gallons Gallons Goal Action For Achievement By Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of Unit of Measure Preventative Maintenance Work Total Staff Hours TARGET MEASURE: Integrate Asset Manageme Unit of Measure	FY 2016 / 1,108.29 KEY CODE: nent progr of work or rk Orders c Orders	Actual Actual AG am for infras ders FY 2016 Ac 89% (11,5: 11% (1,3: 88% (3,5)	FY 2016 Go 100% tructure a tual 56) 67) 72)	and asset FY 2016 90% 80% t for trea	2017 Goal F 100% s, ensure integ Goal FY 201 5 90 5 80	Y 2018 Goal 100% grity and maximize 7 Goal FY 2018 Go 1% 90%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of Unit of Measure Preventative Maintenance Work Corrective Maintenance Work Total Staff Hours TARGET MEASURE: Integrate Asset Manageme	FY 2016 / 1,108.29 KEY CODE: nent progr of work or rk Orders c Orders	Actual MG MG am for infras ders FY 2016 Ac 89% (11,5) 11% (1,3) 88% (3,5) perating Capital MG MG MG MG MG MG MG MG MG MG	FY 2016 Go 100% tructure a tual 56) 67) 72) tal Budget	and asset FY 2016 90% 80% t for trea	2017 Goal F 100% s, ensure integ Goal FY 201 6 90 6 80 tment plants	Y 2018 Goal 100% grity and maximize 7 Goal FY 2018 G 1% 90% 80%
Unit of Measure Gallons GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset managem investment • CB 5 TARGET MEASURE Perform no less than 90% of Unit of Measure Preventative Maintenance Work Corrective Maintenance Work Total Staff Hours TARGET MEASURE: Integrate Asset Manageme Unit of Measure	FY 2016 / 1,108.29 KEY CODE: nent progr of work or rk Orders c Orders	Actual MG MG am for infras ders FY 2016 Ac 89% (11,5) 11% (1,3) 88% (3,5) perating Capitant 16 Actual	FY 2016 Go 100% tructure a tual 56) 67) 72) tal Budget	FY 2016 90% 80% t for trea Goal	2017 Goal F 100% s, ensure integ Goal FY 201 6 90 6 80 tment plants	Y 2018 Goal 100% grity and maximize 7 Goal FY 2018 G 1% 90% 80%

ENVIRONMENTAL PERFORMAN			antify and m		nmental performa pacts to the envir anner.	
GOAL ACTION FOR ACHIEVEMENT E Minimize environmental imp TARGET MEASURE: Implement 100% of ener Unit of Measure	acts and implement	tiative		sustainability m FY 2017 Goal	easures • EP 1 FY 2018 Goal	
Percentage	1		100%	100%	100%	
FINANCIAL MANAGEMENT:	Ма	anage	NBC's financ	es through stro	ng financial plann	ing and
		-	-	-	arges are minimiz	-
GOAL ACTION FOR ACHIEVEMENT E Evaluate savings opportunitie TARGET MEASURE:	es and optimize NB		ations and pr	ocesses • FM 8		
Gallons of chemicals add	•					
Unit of Measure	FY 2016 Act	ual	FY 2016 G			
Hypochlorite	574,853		600,000		,	
Sodium Bisulfite Carbon Feed	222,424 13,506		219,000 27,300	219,000 27,300	,	
Sodium Hydroxide			45,500	45,500	,	
TARGET MEASURE:	54,005		45,500	43,300	43,300	
Produce less than 25 dry	tone of cludgo por	dav				
Unit of Measure	FY 2016 Actual	uay	FY 2016 Actu	al FY 2017 Go	oal FY 2018 Goal	
	Daily Average-21.2 D		<25 Dry Ton			-
Quantity	Daily Average-21.2 D		25 Dry 101			
STAFFING:	,	Attract	, develop an	d retain highly	qualified employe	es.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Offer a minimum of 300 training/safety hours

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Hours	321.5	300	300	300	Ī

BUCKLIN POINT - The Program

Mission and Overview:

The Bucklin Point WWTF is the second largest treatment facility in Rhode Island with the capacity of treating up to 116 MGD of flow through its treatment processes. The secondary treatment process can fully treat up to 46 MGD. Influent flows greater than 46 MGD and up to 116 MGD are diverted to the Wet Weather Treatment Facility, where they receive primary treatment, disinfection with sodium hypochlorite and dechlorination with sodium bisulfite before being released into the Seekonk River. Operations and Maintenance staff strive to optimize treatment efficiency so as to produce a high quality effluent that exceeds national secondary treatment standards.

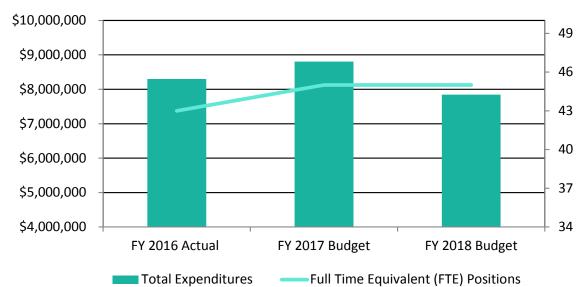
Major Accomplishments FY 2017 by Key Code:

- **CB 1** Achieved the seasonal permit for total nitrogen (5 mg/l) in May 2016 through October 2016
- **CB 2** Upgraded the hypochlorite lines
- **CB 5** Repaired gas piping at Digester #2 in preparation for Contract 81400C
- **CB 5** Resolved the hydraulic gates emergency closure mechanical issues
- **CB 5** Inspected the Primary and Final clarifiers
- **FM 8** Replaced the Bank "A" ultraviolet lamps for the disinfection processes
- FM 8 Completed the LED upgrade under the NBC Energy Efficiency Upgrades Contract 13100C
- **S 5** Successfully implemented a succession plan for Operations and Maintenance

- **CB 5** Optimize inventory control procedures, ensure proper inventory and improve preventive and corrective work order efficiency
- CB 5 Continue the electrical asset testing
- **CB 5** Upgrade flame arrestor and critical explosion proof equipment and piping
- FM 8 Optimize treatment processes to produce high quality effluent
- **FM 8** Replace all Bank B ultraviolet lamps for the UV disinfection processes as they near the end of their useful life

BUCKLIN POINT - The Budget

	FY 2	016 Actual	FY 20	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense Personnel Less Capital Reimbursements	\$	3,960,815	\$	4,419,560	\$	4,511,363
Net Personnel		3,960,815		4,419,560		4,511,363
Operating Supplies/Expense		3,329,207		3,263,768		2,483,030
Professional Services		11,765		14,000		12,000
Operating Capital		998,367		1,108,500		840,000
Debt Service		-		-		-
Total Expenditures	\$	8,300,154	\$	8,805,828	\$	7,846,393
Expenditures by Funding Source						
Revenue	\$	7,301,787	\$	7,697,328	\$	7,006,393
Operating Capital Transfer Grant		998,367 -		1,108,500		840,000 -
Total Expenditures by Source	\$	8,300,154	\$	8,805,828	\$	7,846,393



BUCKLIN POINT - Historical Data

PROGRAM ST	AFFING	(BUDGETED)	
Operations Manager	1.0	Maintenance Manager	1.0
Asset Management Foreman	1.0	Maintenance Planner/Scheduler	1.0
Assistant Electronics and Instrumentation Technician	1.0	Maintenance Supervisor	1.0
Assistant Maintenance Planner/Scheduler	1.0	Mechanic	6.0
Assistant Operations Manager	1.0	Operations Foreman	1.0
Clerk	1.0	Operations Supervisor	4.0
Electronics and Instrumentation Technician	1.0	Operator	8.0
Electrical Foreman	1.0	Process Monitor	9.0
Electrician	2.0	Electronics and Instrumentation Technician	1.0
Heavy Equipment Operator	1.0	Utility Crew Foreman	1.0
Inventory Control Clerk	1.0		
45	5.0 FTE	5	

BUCKLIN POINT - Performance Data

	Onoro	to main	tain and pro	tect our collec	tion and treatme	nt system
CORE BUSINESS:			-		equirements are l	-
		ensure	indi un state	surpassed.	equilements ure i	iner or
				surpusseu.		
GOAL ACTION FOR ACHIEVEMENT BY						
Ensure compliance with all Stat		gulation	s nermits c	onsent agreem	ents certification	s NRC
regulations and reporting requi		.501011011	5, permis, e	onsent ugreen		5, NDC
Target Measure:						
Ensure the Annual Dry Tons	s report is subm	itted to I) FM by Janu	arv 31st		
Unit of Measure	FY 2016 Actual		2016 Goal	FY 2017 Goal	FY 2018 Goal	
Due Date	3/3/2016	1	/31/2016	1/31/2017	1/31/2018	
TARGET MEASURE:						
Minimize discharge parame	eters violations					
Unit of Measure	FY 2016 A	ctual	FY 2016 G	oal FY 2017 G	oal FY 2018 Go	al
TSS Violations	0		0	0	0	
BOD Violations	0		0	0	0	
Fecal Coliform Violation	ns 1		0	0	0	
TARGET MEASURE:			. /1			
Achieve total seasonal nitro Unit of Measure	ogen permit limi FY 2016 Actual				EV 2019 Cool	
mg/l	4.3	FY	2016 Goal 5.0	FY 2017 Goal 5.0	FY 2018 Goal 5.0	
	4.5		5.0	5.0	5.0	
Ensure effluent is treated a	s required by p	rmit				
Unit of Measure	FY 2016		FY 2016 (Goal FY 2017	Goal FY 2018 G	oal
TSS - mg/l	6.48		<10	<7.5		oui
Fecal Coliform - MPN/100	mls 4.45	5	<10	<5	<5	
BOD - mg/l	2.93	L	<10	<5	<30	
Ċ.	Key Code: ment program f	or infras	tructure an	d assets, ensur	e integrity and n	naximize
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure	KEY CODE: ment program f inspections of th FY 2016 Actual	for infras	tructure and infection sys 2016 Goal	d assets, ensur stem per month FY 2017 Goal	e integrity and n T FY 2018 Goal	naximize
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity	KEY CODE: ment program f	for infras	tructure an	d assets, ensur	e integrity and n	naximize
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE:	KEY CODE: ment program f inspections of th FY 2016 Actual 20	or infras	tructure and infection sys 2016 Goal 20	d assets, ensur stem per month FY 2017 Goal	e integrity and n T FY 2018 Goal	naximize
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i <u>Unit of Measure</u> Quantity TARGET MEASURE: Perform no less than 90% of <u>Unit of Measure</u>	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2	for infras	tructure and infection sys 2016 Goal 20 ers al <u>FY 2</u>	d assets, ensur stem per month FY 2017 Goal 20	e integrity and n FY 2018 Goal 20	naximize <u>18 Goal</u>
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% of Unit of Measure Preventative Maintenance Wo	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.1	or infras e UV Dis FY work ord 2016 Actu 13% (6,91	tructure and infection sys 2016 Goal 20 ers al <u>FY 2</u> 7)	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2	e integrity and n FY 2018 Goal 20 2017 Goal FY 20	<u>18 Goal</u>
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% of Unit of Measure Preventative Maintenance Wor Corrective Maintenance Wor	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.3 k Orders 8.8	or infras e UV Dis FY work ord 2016 Actu 13% (6,91 37% (827	tructure and infection sys 2016 Goal 20 ers al FY 2 7)	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2 90%	e integrity and n FY 2018 Goal 20 2017 Goal FY 20 90% 9	18 Goal 90%
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% o Unit of Measure Preventative Maintenance Wor Corrective Maintenance Worl Total Staff Hours	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.3 k Orders 8.8	or infras e UV Dis FY work ord 2016 Actu 13% (6,91	tructure and infection sys 2016 Goal 20 ers al FY 2 7)	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2	e integrity and n FY 2018 Goal 20 2017 Goal FY 20 90% 9	<u>18 Goal</u>
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% of Unit of Measure Preventative Maintenance Wor Corrective Maintenance Worl Total Staff Hours TARGET MEASURE:	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.3 k Orders 8.8 83	or infras e UV Dis FY work ord 2016 Actu 13% (6,91 37% (827 % (2,812	tructure and infection sys 2016 Goal 20 ers al FY 2 7))	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2 90% 80%	e integrity and n FY 2018 Goal 20 2017 Goal FY 20 90% 9 80% 8	18 Goal 90%
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% o Unit of Measure Preventative Maintenance Wor Corrective Maintenance Worl Total Staff Hours	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.3 k Orders 8.8 83	or infras e UV Dis FY work ord 2016 Actu 13% (6,91 37% (827 % (2,812 ng Capita	tructure and infection sys 2016 Goal 20 ers al FY 2 7))	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2 90% 80% treatment plan	e integrity and n FY 2018 Goal 20 2017 Goal FY 20 90% 9 80% 8 ts	<u>18 Goal</u> 90% 30%
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% c Unit of Measure Preventative Maintenance Worl Corrective Maintenance Worl Total Staff Hours TARGET MEASURE: Integrate Asset Manageme	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.3 k Orders 8.8 83 ent into Operatir	or infras e UV Dis FY work ord 2016 Actu 13% (6,91 37% (827 % (2,812 ng Capita	tructure and infection sys 2016 Goal 20 ers al FY 2 7)) Budget for	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2 90% 80% treatment plan	e integrity and n FY 2018 Goal 20 2017 Goal FY 20 90% 9 80% 8 ts	<u>18 Goal</u> 90% 30%
GOAL ACTION FOR ACHIEVEMENT BY Maintain NBC's asset manager investment • CB 5 TARGET MEASURE: Conduct a minimum of 20 i Unit of Measure Quantity TARGET MEASURE: Perform no less than 90% o Unit of Measure Preventative Maintenance Worl Total Staff Hours TARGET MEASURE: Integrate Asset Manageme Unit of Measure	KEY CODE: ment program f inspections of th FY 2016 Actual 20 of maintenance FY 2 rk Orders 91.3 k Orders 91.3 sent into Operatir FY 2016 Actual	or infras e UV Dis FY work ord 2016 Actu 13% (6,91 37% (827 % (2,812 ng Capita	tructure and infection sys 2016 Goal 20 ers al FY 2 7)) Budget for	d assets, ensur stem per month FY 2017 Goal 20 016 Goal FY 2 90% 80% treatment plan	e integrity and n FY 2018 Goal 20 2017 Goal FY 20 90% 9 80% 8 ts	<u>18 Goal</u> 90% 30%

ENVIRONMENTAL PERFORMANCE:		antify and min		nental performance acts to the environ nner.	
	implement conse	5	stainability me FY 2017 Goal 100%	asures • EP 1 FY 2018 Goal 100%	
FINANCIAL MANAGEMENT:	-	-		financial planning ges are minimized.	and
GOAL ACTION FOR ACHIEVEMENT BY KEY CC Evaluate savings opportunities and op TARGET MEASURE: Gallons/Pounds of chemicals add	otimize NBC opera		esses • FM 8		
Unit of Measure F	Y 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Carbon Feed Gallons	0	0	2,500	2,500	
Powder Polymer Pounds	8,910	9,000	9,000	9,000	
Liquid Polymer Gallons	35,544	40,000	40,000	40,000	
Soda Ash Tons	0	30	30	30	
TARGET MEASURE:					
Produce less than 10 dry tons o	of sludge per dav				
•	16 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Quantity Daily Ave	rage - 5.95 DT	<10 Dry Tons	<10 Dry Tons	s <10 Dry Tons	
	0				
Staffing:	Attract	, develop and i	retain highly qu	ualified employees.	

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

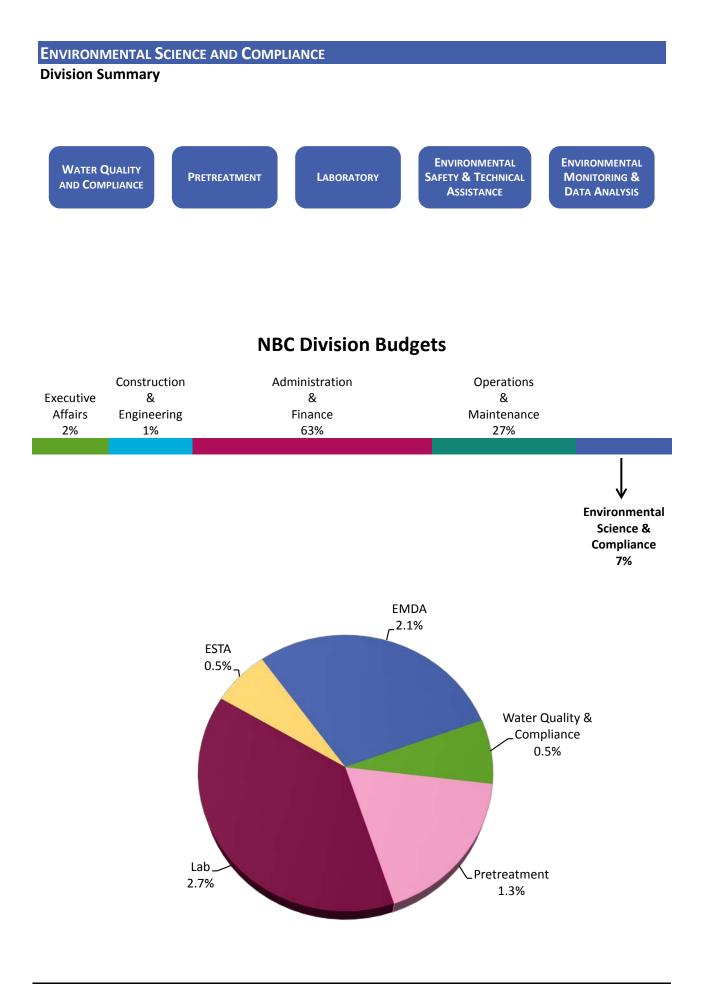
Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Offer a minimum of 200 training/safety hours

_	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Hours	200	200	200	200



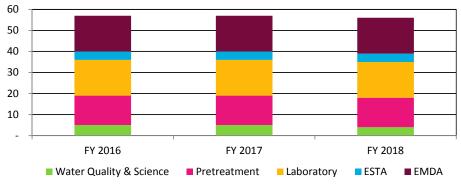


DIVISION SUMMARIES

ENVIRONMENTAL SCIENCE AND COMPLIANCE DIVISION - The Program Division Summary

Purpose and Overview:

The Environmental Science and Compliance Division is responsible for ensuring NBC compliance with all state and federal environmental and health and safety permits and regulations, evaluating new sustainability technologies and agency energy programs. The Division includes Water Quality and Compliance, Pretreatment, Environmental Monitoring & Data Analysis, Environmental Safety & Technical Assistance and the Laboratory. The Division provides technical support to the Operations and Maintenance Division and performs a variety of special studies.



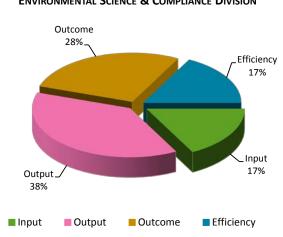


Significant Budget Modifications:

The FY 2018 Environmental Science and Compliance Division budget has increased by approximately 2.8% or \$177,008 from the FY 2017 budget. Personnel increased by \$116,120 or 2.3%. Operating supplies and expense and professional services expense have increased by \$67,610 over the prior year and include maintenance contracts for critical laboratory and monitoring equipment over the prior year. Operating Capital reflects a decrease of \$6,722 from the prior year.

Environmental Science and Compliance Division Performance Data Summary:

The chart below illustrates the Environmental Science and Compliance Division's Performance Data by type of measure. The measures can be found in the individual sections following this division summary. In this Division, Outcome and Efficiency make up 45% of the performance measures.

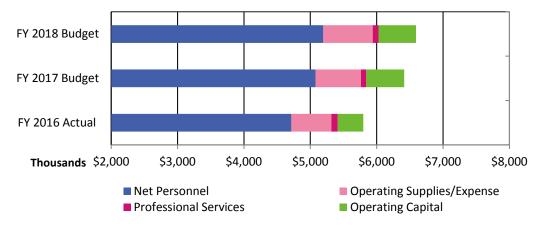


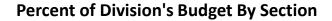
Percentage of Performance Measurement Types **ENVIRONMENTAL SCIENCE & COMPLIANCE DIVISION**

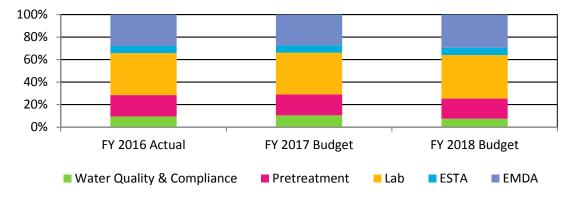
ENVIRONMENTAL SCIENCE AND COMPLIANCE DIVISION - The Budget Division Summary

	FY 2	016 Actual	FY 20	017 Budget	FY 20)18 Budget
Expenditures by Element of Expense						
Personnel	\$	4,719,411	\$	5,081,831	\$	5,197,950
Less Capital Reimbursements		(4,107)		(2,325)		(2,324)
Net Personnel		4,715,304		5,079,506		5,195,626
Operating Supplies/Expense		602,111		681,817		743,927
Professional Services		96,264		82,350		87,850
Operating Capital		384,972		570,000		563,278
Debt Service		-		-		-
Total Expenditures	\$	5,798,650	\$	6,413,673	\$	6,590,681
Expenditures by Funding Source						
Revenue	\$	5,413,678	\$	5,843,673	\$	6,027,403
Operating Capital Transfer		384,972		570,000		563,278
Grant		-		-		-
Total Expenditures by Source	\$	5,798,650	\$	6,413,673	\$	6,590,681

Division's Cost By Element







WATER QUALITY AND COMPLIANCE - The Program

Mission and Overview:

The Water Quality and Compliance section is responsible for ensuring agency compliance with all EPA and DEM environmental permits and regulations, and negotiating RIPDES Permit issues with RIDEM. The section is responsible for the electronic submittal of all RIPDES and EPA documents, including the monthly Discharge Monitoring Report, and annual stormwater and biosolids reporting. The section provides oversight of other ES&RC sections to ensure that all projects, regulatory requirements and deadlines are met, and provides guidance regarding the enforcement of NBC Rules and Regulations. The section works closely with regulatory agencies and environmental stakeholders and conducts public outreach projects. The section is responsible for seeking grant and award opportunities for the agency, issuance and maintenance of NBC Policies and review and update of the NBC Strategic Plan.

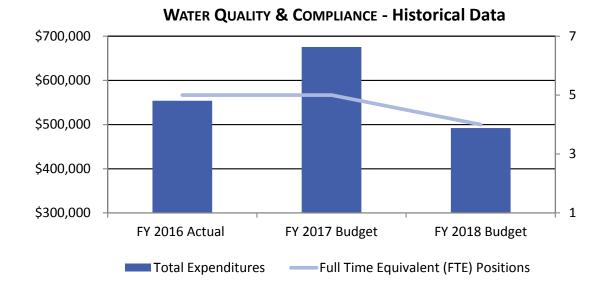
Major Accomplishments FY 2017 by Key Code:

- **CB 1** Submitted all Discharge Monitoring Reports to the EPA and RIDEM on time
- **CB 1** Submitted the annual Stormwater Reports to RIDEM on time
- **CF 1** Administered the NBC Earth Day River Cleanup Grant Program involving 20 non-profit organizations to support various river cleanups throughout the NBC service area

- **CB1** Submit all Discharge Monitoring Reports to the EPA and DEM on time
- **CB 1** Submit the annual Stormwater Reports to DEM on time
- **CF 1** Continue the Grant Program for local organizations as part of the Chairman's River Restoration Initiative

WATER QUALITY AND COMPLIANCE - The Budget

	FY 20	16 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense Personnel Less Capital Reimbursements	\$	536,933 -	\$	556,233 -	\$	468,524
Net Personnel		536,933		556,233		468,524
Operating Supplies/Expense		12,223		14,125		13,625
Professional Services		4,813		10,000		10,000
Operating Capital Debt Service		-		95,000		-
Total Expenditures	\$	553,969	\$	675,358	\$	492,149
Expenditures by Funding Source						
Revenue	\$	553,969	\$	580,358	\$	492,149
Operating Capital Transfer		-		95,000		-
Grant		-		-		-
Total Expenditures by Source	\$	553,969	\$	675,358	\$	492,149



Program Stat	FING (Budgeted)	
Director of Environmental Science and Compliance	1.0	Environmental Scientist	1.0
Environmental Coordinator	1.0	Planning Manager	1.0
4.0) FTEs		

WATER QUALITY AND COMPLIANCE - Performance Data

CORE BUSINESS:	Operate, maintain and protect our collection and treatm	-
	to ensure that all State and Federal requirements are	e met or
	surpassed.	
OAL ACTION FOR ACHIEVEMENT BY		
	e and Federal regulations, permits, consent agreements, certifications	nc NRC
regulations and reporting requi		ins, NDC
TARGET MEASURE:		
	r inspection report for both WWTF's	
Unit of Measure	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goa	I
Field's Point Due Date	e 10/18/2015 12/30/2015 12/30/2016 12/30/2017	
Bucklin Point Due Date	e 10/19/2015 12/30/2015 12/30/2016 12/30/2017	
TARGET MEASURE:		
Renewal of RIPDES stormw	ater permits per RIDEM requirements within 30 days of notice	
	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Go	
Timeframe Reno	ewal not required Within 30 days Within 30 days Within 30 d	ays
CUSTOMER FOCUS:	Maintain a customer-focused attitude throughout the or	ganizatio
Maintain programs and conduc		
Target Measure: Earth Day River Cleanup Ev	ent/Grant Program in NBC Service Area FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal	
TARGET MEASURE:	ent/Grant Program in NBC Service Area FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018	
TARGET MEASURE: Earth Day River Cleanup Events Unit of Measure	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal	
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018	
TARGET MEASURE: Earth Day River Cleanup Even Unit of Measure Event Date Quantity - Grants	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20	
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	
Target Measure: Earth Day River Cleanup Even Unit of Measure Event Date Quantity - Grants	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20	yees.
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	yees.
TARGET MEASURE: Earth Day River Cleanup Even Unit of Measure Event Date Quantity - Grants Total Grants	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	yees.
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TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING:	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	yees.
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: GOAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	yees.
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: GOAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE:	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	yees.
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: GOAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000	yees.
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: GOAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee Unit of Measure	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000 Attract, develop and retain highly qualified employ Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal	yees.
TARGET MEASURE: Earth Day River Cleanup Event Event Date Quantity - Grants Total Grants STAFFING: GOAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee Unit of Measure Frequency GOAL ACTION FOR ACHIEVEMENT BY	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000 Attract, develop and retain highly qualified employ. Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal 12 12 12 12 12	
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: COAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee Unit of Measure Frequency COAL ACTION FOR ACHIEVEMENT BY Provide professional, technical	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000 Attract, develop and retain highly qualified employ Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal 12 FY 2016 Goal FY 2017 Goal FY 2018 Goal Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal 12 12 12 12 12	
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: COAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee Unit of Measure Frequency COAL ACTION FOR ACHIEVEMENT BY Provide professional, technical swith systems and processes • S	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000 Attract, develop and retain highly qualified employ Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal 12 FY 2016 Goal FY 2017 Goal FY 2018 Goal Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal 12 12 12 12 12	
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TARGET MEASURE: Earth Day River Cleanup Event Event Date Quantity - Grants Total Grants STAFFING: COAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee Unit of Measure Frequency COAL ACTION FOR ACHIEVEMENT BY Provide professional, technical a with systems and processes • S TARGET MEASURE: Provide a minimum of 16 p	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000 Attract, develop and retain highly qualified employ. Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal Key Code: The second secon	
TARGET MEASURE: Earth Day River Cleanup Event Unit of Measure Event Date Quantity - Grants Total Grants STAFFING: COAL ACTION FOR ACHIEVEMENT BY Foster a positive working enviro TARGET MEASURE: Conduct monthly staff mee Unit of Measure Frequency COAL ACTION FOR ACHIEVEMENT BY Provide professional, technical a with systems and processes • S TARGET MEASURE:	FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal 4/22/2016 4/30/2016 4/30/2017 4/30/2018 20 N/A 20 20 \$10,000 N/A \$10,000 \$10,000 Attract, develop and retain highly qualified employ Key Code: FY 2016 Goal FY 2017 Goal FY 2018 Goal onment through effective communication • S 1 FY 2016 Goal FY 2017 Goal FY 2018 Goal 12 12 12 12 12 12 Key Code: and/or safety training to optimize team performance and ensure us 3 3 S	

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Develop mechanisms and establish opportunities for continued growth and professional development • S 5 TARGET MEASURE:

	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
	Frequency	2	2	2	2	
-		·				
COMMUNICATION:		-	ve and enhance			
			ase understandi	ng of "who we d	are" and "what	we do"

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Strengthen and expand NBC's positive relations with key stakeholders (customers, Board, elected officials/ delegates, regulatory officials and the public) to ensure support of NBC's mission • C 5

TARGET MEASURE:

Educate the public and NBC stakeholders by giving presentations about the NBC and water quality improvements

	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
	Quantity	8 Presentations	4	4	4
TARGET ME	ASURE:				
Annual r	eview and update	of Strategic Plan			
Annual r	eview and update Unit of Measure	of Strategic Plan FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Annual r	eview and update	of Strategic Plan			

PRETREATMENT - The Program

Mission and Overview:

The Pretreatment section is responsible for the federally mandated pretreatment program. The primary purpose of the pretreatment program is to protect the NBC wastewater treatment plants and the infrastructure from toxic chemicals that could disrupt and interfere with plant operations, as well as to protect the receiving waters, rivers and ultimately Narragansett Bay. The Pretreatment section uses various tools to accomplish this task, including the issuance of Wastewater Discharge Permits to industrial and commercial users. This section also performs site inspections of these users, responds to spills within the NBC districts and tracks toxic discharges through the sewer system to determine the source.

Major Accomplishments FY 2017 by Key Code:

- **CB 1** Issued 9 educational form letters to users
- **CB 1** Inspected all Significant Industrial Users (SIU) multiple times within the 12 month period
- **CB 1** Issued 1,938 Notices of Violation for each incident of non-compliance
- **CB 1** Submitted the Pretreatment Annual Report to DEM by 3/15/17 as required by the RIPDES permit
- **CB 1** All SIUs were continuously permitted in accordance with federal regulations
- **C 5** Participated in 8 public presentations and workshops

- **CB 1** Complete and submit the Pretreatment Annual Report by March 15th in accordance with the RIPDES permit
- **CB1** Protect the treatment plants and collection systems from toxic and nuisance pollutant discharges that would adversely impact and interfere with NBC facilities and prevent pass through of these pollutants into Narragansett Bay
- **CB1** Ensure all SIUs are continuously permitted and inspected in accordance with State and Federal requirements as well as goals established by the NBC

PRETREATMENT - The Budget

		016 Actual	FY 20	017 Budget	FY 2018 Budget	
Expenditures by Element of Expense Personnel Less Capital Reimbursements	\$	1,040,607	\$	1,122,685 -	\$	1,144,213
Net Personnel		1,040,607		1,122,685		1,144,213
Operating Supplies/Expense Professional Services		27,816 7,856		38,320		38,270 -
Operating Capital Debt Service		19,222		30,000		-
Total Expenditures	\$	1,095,501	\$	1,191,005	\$	1,182,483
Expenditures by Funding Source Revenue Operating Capital Transfer	\$	1,076,279 19,222	\$	1,161,005 30,000	\$	1,182,483 -
Grant Total Expenditures by Source	\$	1,095,501	\$	1,191,005	\$	1,182,483

FY 2017 Budget

FY 2016 Actual

Total Expenditures

PRETREATMENT - Historical Data

PROGRAM STAFFING (BUDGETED)							
Pretreatment Manager	1.0	Pretreatment Technician	5.0				
Pretreatment Clerk	3.0	Principal Pretreatment Engineer	1.0				
Pretreatment Engineer	2.0	Senior Pretreatment Technician	1.0				
Assistant Pretreatment Manager	1.0						
14.0 FTEs							

FY 2018 Budget

PRETREATMENT - Performance Data

	a <i>i</i>						
CORE BUSINESS:	-	e, maintain and protect our collection and treatment systems to e that all State and Federal requirements are met or surpassed.					
	ensure the	at all State and Fe	deral requireme	nts are met or su	rpassea.		
GOAL ACTION FOR ACHIEVEMENT I					NDC		
Ensure compliance with all St	-	ulations, permits, o	consent agreeme	ents, certification	s, NBC		
regulations and reporting rec	uirements • CB 1						
TARGET MEASURE:		_					
Conduct EPA and RIDEM	-	-					
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	-		
Field's Point	10/18/2016	Annually	Annually	Annually			
Bucklin Point	10/19/2016	Annually	Annually	Annually	1		
TARGET MEASURE:							
Conduct annual RIDEM n	-						
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal			
Percentage	77 Trainings	100%	100%	100%			
TARGET MEASURE:							
Conduct non-sampling in	spections of 100% S	ignificant Industria	al Users (SIUs) w	ithin the required	112 month		
period Unit of Measure	FY 2016 Actual	FY 2016 Goa	al FY 2017 Goa	FY 2018 Goal			
Percentage	70 Inspections	100%	100%	100%			
TARGET MEASURE:							
Complete and submit An	nual Pretreatment F	Report to DFM					
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal			
Completion date		3/15/2016	3/15/2017	3/15/2018			
TARGET MEASURE:	-, ,	-, -,	-, -, -	-, -,			
Issue Notices of Violation	ns (NOVs) for 100% o	of incidents of non	-compliance				
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal			
Percentage	1,938 NOVs	100%	100%	100%			
	,						
ENVIRONMENTAL PERFORMAN	CE: Continu	ously evaluate NI	BC environment	al performance t	o identifv.		
		tify and minimize l					
	•		effective manne				
			-,,,				
GOAL ACTION FOR ACHIEVEMENT I	BY KEY CODE:						
Evaluate the NBC Program ar		the public • FP 2					
TARGET MEASURE:							
	itizan'a Advisany Car	mmittaa					
Present findings to the C Unit of Measure			FY 2017 Goal	EV 2019 Cool			
Presentation Date		FY 2016 Goal 6/30/2016	6/30/2017	FY 2018 Goal 6/30/2018			
TARGET MEASURE:	4/20/2010	0/30/2010	0/30/2017	0/30/2010			
	o nowenanar a list	of companies in sis	nificant non car	nnlianco			
Compile and publish in th Unit of Measure		of companies in sig FY 2016 Goal					
Date	2/23/2016	2/28/2016	FY 2017 Goal 2/28/2017	FY 2018 Goal 2/28/2018			
Date	2/23/2010	2/20/2010	2/20/2017	2/20/2010			

Perform prompt reviev	vs of usor plan subm	ittalc			
Unit of Measure	FY 2016 Actual	iittais	FY 2016 Goa	al FY 2017 Goa	FY 2018 Goal
Percentage	239 User Plan Submi	ttals	100%	100%	100%
TARGET MEASURE:		ccuio	20070	20070	20070
Respond to 100% of re	ports of unusual infl	uent. ill	egal dumping	spills and block	ages
Unit of Measu	-		/ 2016 Goal	-	FY 2018 Goal
Percentage	17 Reports	_	100%	100%	100%
TARGET MEASURE:					
Process Wastewater Di	ischarge Permit App	lications	s promptly		
Unit of Measure	FY 2016 Actual	FY	2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	388 Applications		100%	100%	100%
TARGET MEASURE:					
Issue Wastewater Disc	harge Permits to pre	eviously	unpermitted	users within 30 d	days from the su
the permit application	package.				
Unit of Measure	FY 2016 Actual	FY	2016 Goal	FY 2017 Goal	FY 2018 Goal
Timeframe	22 Days		30 Days	<20 Days	
airie	ZZ Days	`	JU Days	<30 Days	<30 Days
TARGET MEASURE:	22 Days		50 Days	<30 Days	<30 Days
	,		SU Days	<30 Days	<30 Days
TARGET MEASURE:	educational form lett	ters	/ 2016 Goal	,	<30 Days
Target Measure: Issue a minimum of 8 e	educational form lett	ters	,	,	,
TARGET MEASURE: Issue a minimum of 8 e Unit of Measu	educational form lett	ters	/ 2016 Goal	FY 2017 Goal	FY 2018 Goal
TARGET MEASURE: Issue a minimum of 8 e <u>Unit of Measu</u> Quantity	educational form lett rre FY 2016 Actual 9 Letters	ters F	<mark>/ 2016 Goal</mark> 8	FY 2017 Goal	FY 2018 Goal
TARGET MEASURE: Issue a minimum of 8 e <u>Unit of Measu</u> Quantity TARGET MEASURE:	educational form lett <u>re FY 2016 Actual</u> 9 Letters Im of 3 public preser	ters F ntations	<mark>/ 2016 Goal</mark> 8	FY 2017 Goal	FY 2018 Goal
TARGET MEASURE: Issue a minimum of 8 e Unit of Measu Quantity TARGET MEASURE: Participate in a minimu	educational form lett <u>re FY 2016 Actual</u> 9 Letters Im of 3 public preser	ters F ntations	<mark>/ 2016 Goal</mark> 8 /workshops	FY 2017 Goal 8	FY 2018 Goal 8
TARGET MEASURE: Issue a minimum of 8 e Unit of Measu Quantity TARGET MEASURE: Participate in a minimu Unit of Measu	educational form lett ire FY 2016 Actual 9 Letters im of 3 public preser re FY 2016 Actual	ters F ntations	Y 2016 Goal 8 /workshops Y 2016 Goal	FY 2017 Goal 8 FY 2017 Goal	FY 2018 Goal 8 FY 2018 Goal
TARGET MEASURE: Issue a minimum of 8 e Unit of Measu Quantity TARGET MEASURE: Participate in a minimu Unit of Measu	educational form lett re FY 2016 Actual 9 Letters rm of 3 public preser re FY 2016 Actual 5 Presentations	ters F ntations F	<mark>/ 2016 Goal</mark> 8 /workshops Y 2016 Goal 3	FY 2017 Goal 8 FY 2017 Goal	FY 2018 Goal 8 FY 2018 Goal 3

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Strengthen and expand NBC's positive relations with key stakeholders (customers, Board, elected officials/ delegates, regulatory officials and the public) to ensure support of NBC's mission • C 5

TARGET MEASURE:

Complete pretreatment annual report and post on NBC's website

	Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
-	Date	3/16/2016	4/15/2016	4/15/2017	4/15/2018

LABORATORY - The Program

Mission and Overview:

The Laboratory section is responsible for producing high quality analytical data through the use of analytical measurements that are accurate, reliable and achieve the most precise measurements possible in order to comply with Federal and State regulations. The Laboratory is certified by the State of RI and must comply with certification requirements by the Department of Health (DOH) and USEPA. The Laboratory section performs all RIPDES required analyses for the Field's Point and Bucklin Point WWTFs, Pretreatment programs and monitoring activities, IM's fecal Best Management Practices of the urban rivers and receiving water evaluations of the upper Narragansett Bay.

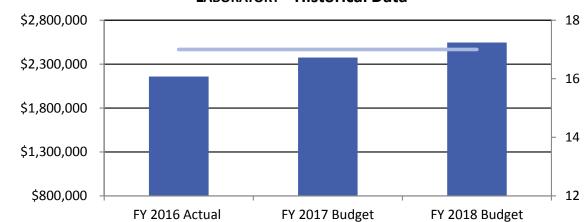
Major Accomplishments FY 2017 by Key Code:

- **CB1** Obtained 100% accuracy for the lab's analytical proficiency on required testing for the RI State Licensing and EPAs DMR reporting
- **CB 4** Integrated all of the laboratory instruments into the new LIMS
- **EP 4** Provided quality analytical analyses for all NBC studies and samples to evaluate the impact of nutrients, enterococci, and fecal coliform on the Bay
- **CF 1** Staff participated in the NEWEA LIMS conference hosted at NBC, the 2016 STEMs workshop hosted at NBC, and the Woon Watershed Educational Program
- **S 3** Staff averaged 40 hours of chemistry and HAZWOP training

- **CB 1** Meet the State and Federal requirements for Rhode Island State Licensing and EPA permit reporting
- **CB 5** Implement the new LIMS barcode scanning system
- **EP 4** Perform high quality analyses of samples to ensure proper operation of the NBC's wastewater treatment facilities
- **EP 4** Provide quality and expedient analytical service for all studies and samples collected to evaluate the impacts of nutrients and fecal coliform in NBC's effluent

LABORATORY - The Budget

	FY 2016 Actual		FY 20	FY 2017 Budget		018 Budget
Expenditures by Element of Expense Personnel Less Capital Reimbursements	\$	1,503,121	\$	1,608,943	\$	1,706,684
Net Personnel		1,503,121		1,608,943		1,706,684
Operating Supplies/Expense Professional Services Operating Capital Debt Service		401,805 50,107 205,257		430,007 41,850 295,000		496,717 41,850 299,778
Total Expenditures	\$	2,160,290	\$	2,375,800	\$	2,545,029
Expenditures by Funding Source Revenue Operating Capital Transfer Grant	\$	1,955,033 205,257 -	\$	2,080,800 295,000 -	\$	2,245,251 299,778 -
Total Expenditures by Source	\$	2,160,290	\$	2,375,800	\$	2,545,029



Total Expenditures

Program Staffing (Budgeted)						
Laboratory Manager	1.0	Quality Chemist	1.0			
Assistant Laboratory Manager	1.0	Sample Compliance Coordinator	1.0			
Biologist	1.0	Senior Environmental Chemist	1.0			
Chemist	2.0	Senior Organic Chemist	1.0			
Clerk	1.0	Technician	5.0			
Environmental Chemist	2.0					
17.0 FTEs						

LABORATORY - Performance Data

CORE BUSINESS:

Operate, maintain and protect our collection and treatment systems to ensure that all State and Federal requirements are met or surpassed.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Ensure compliance with all State and Federal regulations, permits, consent agreements, certifications, NBC regulations and reporting requirements • CB 1

TARGET MEASURE:

Annual calibration of all laboratory instrumentation

	Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
	Percentage	38 Calibrations		100%	100%	100%	
TARGET ME	ASURE:						
Complete EPA or RIDEM mandated analyses							
	Unit of Measure	FY 2016 Actual		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
	SIUs	4,029 Tests		100%	100%	100%	
	Field's Point	24,947 Tests		100%	100%	100%	
	Bucklin Point	22,206 Tests		100%	100%	100%	
	Manholes	3,816 Tests		100%	100%	100%	
	Septage	1,113 Tests		100%	100%	100%	
TARGET ME	ASURE:						
Monthly audits of at least two laboratory precedures per month							

Monthly audits of at least two laboratory procedures per month

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal	
Quantity	24	24	24	24	

TARGET MEASURE:

Prepare and submit the Department of Health certification renewal application

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Date submitted	12/1/2015	12/1/2015	12/1/2016	12/1/2017

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Maintain NBC's asset management program for infrastructure and assets, ensure integrity and maximize the investment • CB 5

TARGET MEASURE:

Ensure laboratory equipment required maintenance is completed within 7 days

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Timeframe	3 Days	≤7 Days	≤7 Days	≤7 Days

ENVIRONMENTAL PERFORMANCE:	Continuously evaluate NBC environmental performance to identify, quantify and minimize NBC impacts to the environment in a cost
	effective manner.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide quality and expedient sample collection, data analyses and water quality monitoring to evaluate NBC's impacts and document improvements • EP 4

TARGET MEASURE:

Analyze 100% of collected samples for water quality monitoring

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Nutrients	5,384 Tests	100%	100%	100%
Fecal Coliform	3,197 Tests	100%	100%	100%

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide professional, technical and/or safety training to optimize team performance and ensure user comfort with systems and processes • S 3

TARGET MEASURE:

Provide a minimum o	f 300 training hours
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Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Hours	405	300	300	300

ENVIRONMENTAL SAFETY & TECHNICAL ASSISTANCE - The Program

Mission and Overview:

The Environmental Safety and Technical Assistance (ESTA) section provides environmental, health, safety and technical assistance to NBC staff, customers, environmental organizations and the general public. The ESTA section interacts with RIDEM, local emergency planning and response authorities, publicly owned treatment works and the EPA to assist in identifying and developing new and innovative ways to improve the environmental performance of NBC operations and to ensure the operations are performed in a safe, efficient and sustainable manner. The ESTA section provides pollution prevention, energy efficiency, conservation, environmental compliance, sustainability and health and safety assistance through research activities, written publications, workshops, on-site technical assistance and public outreach.

Major Accomplishments FY 2017 by Key Code:

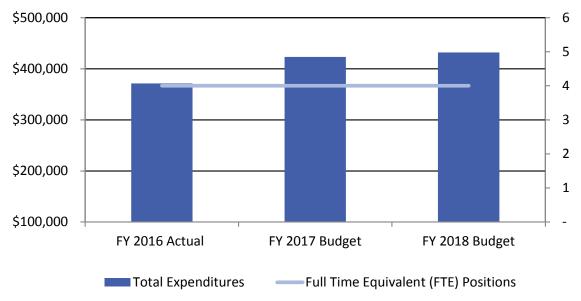
- **CB 4** Monitored and maintained osprey camera at Bucklin Point
- **CB 4** Launched BayNet Training Central website to improve and simplify employee safety training records
- **EP 2** Documented and tracked coal dust impacts on Field's Point operations
- **EP 3** Coordinated an ongoing Greenhouse Gas Measurement Study at Field's Point with URI
- **EP 3** Monitored and tracked wind turbine avian impact for RIDEM reporting and updated meter readings and utility bills for all NBC properties in Portfolio Manager
- **EP 3** Reviewed and assessed RFQP responses for virtual net metered renewable energy
- **FM 7** Investigated grant funding opportunities and alternative methods to help finance various energy improvement and efficiency projects
- **CF 2** Offered timely and effective pollution prevention technical assistance to NBC's Industrial and Commercial customers
- **CF 2** Conducted a Confined Space Emergency Rescue Drill at Field's Point with the Providence Fire Department, coordinated a full-day Emergency Response Seminar with EPA, participated in the RIWARN Tabletop Exercise at the Providence Water Treatment Plant and completed 10 Renewable Energy Assessments for water and wastewater facilities
- **S 3** Conducted 23 NBC employee safety training sessions. Developed and implemented the NBC Safety Committee Policy, G-S-5, updated the NBC Employee Environmental Health and Safety Policy: G-S-2
- **C 5** Initiated a Safety Awareness and Recognition Program. Developed the NBC Energy Management Report. Identified and educated NBC staff on potential new EPA regulatory requirements

- **EP 3** Conduct energy efficiency assessments of NBC processes, conduct assessments of Food Processing Establishments and investigate feasibility of establishing residential grease collection program
- FM 7 Research and apply for new grant funding opportunities
- **S 3** Conduct/Coordinate and track all OSHA required training sessions for NBC employees assuring full demonstrated compliance with all applicable OSHA requirements

ENVIRONMENTAL SAFETY & TECHNICAL ASSISTANCE - The Budget

	FY 20	16 Actual	FY 20	17 Budget	FY 20	18 Budget
Expenditures by Element of Expense						
Personnel	\$	342,133	\$	388,663	\$	392,586
Less Capital Reimbursements		(4,107)		(2,325)		(2,324)
Net Personnel		338,026		386,338		390,262
Operating Supplies/Expense		33,858		36,815		41,815
Professional Services		-		-		-
Operating Capital		-		-		-
Debt Service		-		-		-
Total Expenditures	\$	371,884	\$	423,153	\$	432,077
Expenditures by Funding Source						
Revenue	\$	371,884	\$	423,153	\$	432,077
Operating Capital Transfer		-		-		-
Grant				-		-
Total Expenditures by Source	\$	371,884	\$	423,153	\$	432,077

ENVIRONMENTAL SAFETY & TECHNICAL ASSISTANCE - Historical Data



PROGRAM STAFFING (BUDGETED)								
Environmental Safety and Technical Assistance Manager	1.0	Environmental Sustainability Engineer	1.0					
Environmental Compliance Technical Assistant		Safety Compliance Coordinator	1.0					
4.0 FTEs								

ENVIRONMENTAL SAFETY & TECHNICAL ASSISTANCE - Performance Data

ACTION FOR ACHIEVEMENT BY KEY (sure compliance with all State a sulations and reporting require arget Measure:	and Federal regulati	ions, permits, co		
sure compliance with all State a ulations and reporting require	and Federal regulati	ions, permits, co		
ulations and reporting require		10113, permits, tu	nsent agreemo	nts cartification
			isent agreeine	
ANGET IVIEASURE.				
Compile and process annual (OSHA 300 logs and T	Tier II reports two	o weeks prior t	o respective due
Unit of Measure	FY 2016 Actua		-	-
Completion Date - OSHA 300 I		1/24/20		
Completion Date - Tier II Repo		2/21/20		
ARGET MEASURE:				
Perform a minimum of 8 inter	rnal environmental	health & safety a	audits	
	Y 2016 Actual	=	FY 2017 Goal	FY 2018 Goal
Quantity	9 Audits	8	8	8
	Cantinuan			6
VIRONMENTAL PERFORMANCE:		ly evaluate NBC		
	quantify a	and minimize NB	•	
		еђ	ective manner.	
Complete a minimum of 3 en Unit of Measure	ergy assessments to FY 2016 Actual			
Unit of Measure Assessments	FY 2016 Actual 4	o increase use of FY 2016 Go 3	bal FY 2017 G 3	oal FY 2018 Go 3
Complete a minimum of 3 en Unit of Measure	FY 2016 Actual 4	o increase use of FY 2016 Go	oal FY 2017 G	oal FY 2018 G
Complete a minimum of 3 en Unit of Measure Assessments	FY 2016 Actual 4 ed 19%	o increase use of FY 2016 Go 3	bal FY 2017 G 3 35%	oal FY 2018 Go 3 75%
Complete a minimum of 3 en Unit of Measure Assessments % Renewable Energy Achieve	FY 2016 Actual 4 ed 19% Manage	o increase use of FY 2016 Go 3 16%	bal FY 2017 G 3 35% hrough strong	oal FY 2018 Go 3 75% financial planni
Complete a minimum of 3 en Unit of Measure Assessments % Renewable Energy Achieve	FY 2016 Actual 4 ed 19% Manage cont	o increase use of FY 2016 Go 3 16% NBC's finances t	bal FY 2017 G 3 35% hrough strong	oal FY 2018 Go 3 75% financial planni
Complete a minimum of 3 en- Unit of Measure Assessments % Renewable Energy Achieve ANCIAL MANAGEMENT: ACTION FOR ACHIEVEMENT BY KEY (iate and evaluate grant fundin ARGET MEASURE:	FY 2016 Actual 4 ed 19% Manage cont	o increase use of FY 2016 Go 3 16% NBC's finances t	bal FY 2017 G 3 35% hrough strong	oal FY 2018 Go 3 75% financial planni
Complete a minimum of 3 en Unit of Measure Assessments % Renewable Energy Achieve ANCIAL MANAGEMENT: ACTION FOR ACHIEVEMENT BY KEY (itate and evaluate grant fundin	FY 2016 Actual 4 ed 19% Manage cont	o increase use of FY 2016 Go 3 16% NBC's finances t	bal FY 2017 G 3 35% hrough strong	oal FY 2018 Go 3 75% financial planni
Complete a minimum of 3 en- Unit of Measure Assessments % Renewable Energy Achieve ANCIAL MANAGEMENT: ACTION FOR ACHIEVEMENT BY KEY of tiate and evaluate grant fundin ARGET MEASURE: Submit grant applications Unit of Measure	FY 2016 Actual 4 ed 19% Manage cont CODE: g • FM 7	o increase use of FY 2016 Go 3 16% NBC's finances t trols such that se	hrough strong	oal FY 2018 Go 3 75% financial planni ges are minimize
Complete a minimum of 3 en- Unit of Measure Assessments % Renewable Energy Achieve ANCIAL MANAGEMENT: ACTION FOR ACHIEVEMENT BY KEY 0 tiate and evaluate grant fundin GARGET MEASURE: Submit grant applications	FY 2016 Actual 4 ed 19% Manage cont CODE: g • FM 7 FY 2016 Actual	o increase use of FY 2016 Go 3 16% NBC's finances t trols such that se	hrough strong wer user charg	oal FY 2018 Go 3 75% financial planni ges are minimize FY 2018 Goal

USTOMER FOCUS:	Maintain d	a customer-focu	sed attitude thr	oughout the org
AL ACTION FOR ACHIEVEMENT BY Provide prompt, courteous, e TARGET MEASURE:		al services • CF 2	2	
Conduct 100% of request	ed technical site visits			
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Percentage	23 Site Visits	100%	100%	100%
TARGET MEASURE:		20070	20070	20070
Conduct a minimum of 5	fats oils and grease B	ost Managomon	t Practicos Assos	smonts
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Quantity	4 Assessments	5	5	5
		-		-
AFFING:	Attr	act, develop and	d retain highly q	ualified employ
L ACTION FOR ACHIEVEMENT E ovide professional, technica th systems and processes • TARGET MEASURE:	al and/or safety trainir S 3		am performance	e and ensure use
Conduct a minimum of 2		-		
Unit of Measure		FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Classes	3	2	2	2
Employees Certifie TARGET MEASURE:	ed 46	100%	100%	100%
	training hours			
Provide a minimum of 60 Unit of Measure	-	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
		60	60	60
Hours	nU			00
Hours TARGET MEASURE:	60	00		
TARGET MEASURE:			σ	
TARGET MEASURE: Ensure 100% of employed	es complete the OHSA	required trainin	-	FY 2018 Goal
TARGET MEASURE:	es complete the OHSA FY 2016 Actual		-	FY 2018 Goal
TARGET MEASURE: Ensure 100% of employed Unit of Measure	es complete the OHSA	required trainin FY 2016 Goal	FY 2017 Goal	
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve	required trainin FY 2016 Goal 100% e and enhance in	FY 2017 Goal 100%	100% ernal communica
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve	required trainin FY 2016 Goal 100% e and enhance in	FY 2017 Goal 100%	100% ernal communica
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas	required trainin FY 2016 Goal 100% e and enhance in	FY 2017 Goal 100%	100% ernal communica
TARGET MEASURE: Ensure 100% of employed Unit of Measure	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: 5 positive relations wit	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde	FY 2017 Goal 100% Internal and exte g of "who we an ers (customers, E	100% ernal communica re" and "what w Board, elected o
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage OMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's elegates, regulatory officials	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations wit and the public) to ens	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N	FY 2017 Goal 100% Internal and exte g of "who we an ers (customers, E NBC's mission • (100% ernal communica re" and "what w Board, elected or C 5
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage COMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's elegates, regulatory officials TARGET MEASURE:	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: 5 positive relations wit 5 and the public) to ensign unual environmental m	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N	FY 2017 Goal 100% Internal and exte g of "who we an ers (customers, E NBC's mission • (100% ernal communica re" and "what w Board, elected or C 5
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage COMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's elegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations with and the public) to ensure inual environmental me esentations	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N	FY 2017 Goal 100% Internal and exte g of "who we an ers (customers, E NBC's mission • (100% ernal communica re" and "what w Board, elected or C 5
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage OMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's elegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an 2 external educational pr	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations with and the public) to ensure inual environmental me esentations	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N herit awards prog	FY 2017 Goal 100% Internal and extend g of "who we and ers (customers, E NBC's mission • (gram application	100% ernal communica re" and "what w Board, elected or C 5 is and present a
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage OMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's elegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an 2 external educational pr Unit of Measure	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations wit and the public) to ensi- unual environmental me esentations FY 2016 Actual	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N herit awards prog	FY 2017 Goal 100% Internal and extend g of "who we and ers (customers, E NBC's mission • (gram application FY 2017 Goal	100% ernal communicate re" and "what w Board, elected or C 5 is and present a FY 2018 Goal
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage OMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's elegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an 2 external educational pr Unit of Measure Merit Awards	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations wit and the public) to ensi- unual environmental me esentations FY 2016 Actual 5	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N herit awards prog FY 2016 Goal 100%	FY 2017 Goal 100% Internal and extend g of "who we are ers (customers, E NBC's mission • (gram application FY 2017 Goal 100%	100% ernal communicate re" and "what w Board, elected or C 5 is and present a FY 2018 Goal 100%
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage COMMUNICATION: AL ACTION FOR ACHIEVEMENT E Strengthen and expand NBC's lelegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an 2 external educational pr Unit of Measure Merit Awards Presentations TARGET MEASURE: Submit 4 technical paper	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations wit and the public) to ense inual environmental me esentations FY 2016 Actual 5 4 s/abstracts for publica	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N herit awards prop FY 2016 Goal 100% 2 tion and 8 article	FY 2017 Goal 100% Internal and exter g of "who we an ers (customers, E NBC's mission • (gram application FY 2017 Goal 100% 2 es for publication	100% ernal communication re" and "what w Board, elected of 5 is and present a FY 2018 Goal 100% 2 n in the 'NBC Pip
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage COMMUNICATION: AL ACTION FOR ACHIEVEMENT E trengthen and expand NBC's lelegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an 2 external educational pr Unit of Measure Merit Awards Presentations TARGET MEASURE: Submit 4 technical paper	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations wit and the public) to ensu- inual environmental me esentations FY 2016 Actual 5 4 s/abstracts for publica FY 2016 Actual	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N herit awards prog FY 2016 Goal 100% 2 tion and 8 article FY 2016 Goal	FY 2017 Goal 100% Internal and exter g of "who we an ers (customers, E NBC's mission • (gram application FY 2017 Goal 100% 2 es for publicatio FY 2017 Goal	100% ernal communication re" and "what we Board, elected of 5 is and present a FY 2018 Goal 100% 2 n in the 'NBC Pip FY 2018 Goal
TARGET MEASURE: Ensure 100% of employed Unit of Measure Percentage COMMUNICATION: AL ACTION FOR ACHIEVEMENT E Strengthen and expand NBC's delegates, regulatory officials TARGET MEASURE: Review 100% of NBC's an 2 external educational pr <u>Unit of Measure</u> Merit Awards Presentations TARGET MEASURE: Submit 4 technical paper	es complete the OHSA FY 2016 Actual 53 Training Sessions Improve increas SY KEY CODE: s positive relations wit and the public) to ense inual environmental me esentations FY 2016 Actual 5 4 s/abstracts for publica	required trainin FY 2016 Goal 100% e and enhance in se understandin h key stakeholde sure support of N herit awards prop FY 2016 Goal 100% 2 tion and 8 article	FY 2017 Goal 100% Internal and exter g of "who we an ers (customers, E NBC's mission • (gram application FY 2017 Goal 100% 2 es for publication	100% ernal communication re" and "what w Board, elected of 5 is and present a FY 2018 Goal 100% 2 n in the 'NBC Pip

ENVIRONMENTAL MONITORING & DATA ANALYSIS - The Program

Mission and Overview:

The Environmental Monitoring and Data Analysis (EMDA) section is responsible for water quality monitoring throughout NBC's service area, including the two wastewater treatment facilities, the collection system, permitted pretreatment customers in upper Narragansett Bay and its urban rivers. EMDA serves to protect the health of area residents, ensure the proper operation of the wastewater treatment plants and the quality of receiving water. EMDA conducts significant industrial user and manhole sampling to ensure compliance with discharge permits and conducts daily wastewater treatment facility sampling. This section provides routine analysis of the data obtained from monitoring projects in a timely manner to sections of the NBC, the Federal and State agencies and the public. EMDA designs and implements monitoring programs to assess the impact of constructed improvements and to respond to State and Federal mandates, including all RIPDES permit required monitoring.

Major Accomplishments FY 2017 by Key Code:

- **CB 1** Collected 31,465 (projected) samples and ensured compliance with all Federal and State mandates
- **CB1** Collected samples from all Significant Industrial Users that discharged process wastewater
- **CB1** Sampled the Bucklin Point and Field's Point Wastewater Treatment Facilities daily to ensure compliance with RIPDES permit requirements
- **CF 3** Conducted monthly informational meetings with Operations, IM, Laboratory, Pretreatment, ESTA, Executive and Engineering staff to discuss environmental monitoring data, as well as plant data and operational issues
- **CF 3** Presented the following:

A poster at the Benthic Ecology Meeting Society's Annual Conference held in Portland, Maine entitled: "Measuring Water Quality Improvements in Narragansett Bay – What Can We Learn through Benthic Video Monitoring"

Talks at the New England Estuarine Research Society entitled: *"Receiving Waters Monitoring Following WWTF Upgrades to Reduce Nitrogen Loading"* and *"Evaluation of Bay Bacteria after Phase I and II of the Narragansett Bay Commission's CSO Abatement Project"*

Two seasonal talks to the RI Environmental Monitoring Collaborative on Seasonal Monitoring Updates

A talk to members of the RI Commercial Fisheries Center entitled: "NBC Water Quality Improvements and Monitoring Efforts"

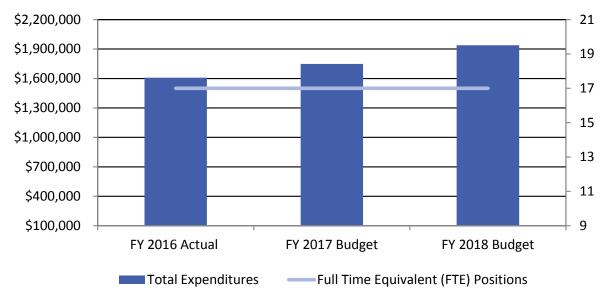
Top Priorities for FY 2018 and How They Relate to the Strategic Plan/Goals and by Key Code:

- **CB 1** Sample the treatment facilities 365 days/year to comply with RIPDES permit requirements, process and provide data and assistance to Operations to evaluate plant performance, optimize treatment plant processes and resolve operational issues
- **CB 1** Sample all discharging Significant Industrial Users twice to meet established Pretreatment goals
- **CB 4** Integrate automated sample collection into LIMS
- **EP 4** Provide quality and expedient sample collection services related to the CSO Phase II Facilities and BNR Projects that will enable the evaluation of their environmental impacts

ENVIRONMENTAL MONITORING & DATA ANALYSIS - The Budget

	FY 2	016 Actual	FY 20	017 Budget	FY 20	018 Budget
Expenditures by Element of Expense						
Personnel	\$	1,296,617	\$	1,405,307	\$	1,485,943
Less Capital Reimbursements		-		-		-
Net Personnel		1,296,617		1,405,307		1,485,943
Operating Supplies/Expense		126,410		162,550		153,500
		,		,		
Professional Services		33,488		30,500		36,000
Operating Capital		160,493		150,000		263,500
Debt Service		-		-		-
Total Expenditures	\$	1,617,008	\$	1,748,357	\$	1,938,943
Expenditures by Funding Source						
Revenue	\$	1,456,515	\$	1,598,357	\$	1,675,443
Operating Capital Transfer		160,493		150,000		263,500
Grant		-		-		-
Total Expenditures by Source	\$	1,617,008	\$	1,748,357	\$	1,938,943

ENVIRONMENTAL MONITORING & DATA ANALYSIS - Historical Data



Program Staffing (Budgeted)						
Environmental Monitoring Manager	1.0	Environmental Monitor	8.0			
Assistant Environmental Monitoring Manager	1.0	Environmental Scientist	2.0			
Clerk	1.0	Monitoring Field Supervisor	3.0			
Environmental Data Analyst	1.0					
	17.0	FTEs				

ENVIRONMENTAL MONITORING & DATA ANALYSIS - Performance Data

ORE BUSINESS:	Operate, maintain and protect our collection and treatment sy to ensure that all State and Federal requirements are met surpassed.					
OAL ACTION FOR ACHIEVEMENT	BY KEY CODE:					
Ensure compliance with all s	State and Federal regula	ations,	permits, co	onsent agreeme	nts, certifications	
regulations and reporting re	•		. ,	U	·	
TARGET MEASURE:						
Collect EPA mandated s	amples					
Unit of Measure	FY 2016 Actual	I	FY 2016 Goal	FY 2017 Goa	FY 2018 Goal	
SIUs	1,933 Samples		100%	100%	100%	
WWTFs	19,688 Samples		100%	100%	100%	
Manholes	940 Samples		100%	100%	100%	
Septage	291 Samples		100%	100%	100%	
TARGET MEASURE:						
Prepare and submit RIP	DES DMR Report by the	e 15 th c	of each mor	nth		
Unit of Measu				FY 2017 Goal	FY 2018 Goal	
Quantity	12		12	12	12	
TARGET MEASURE:						
Conduct annual Enviror	mental Land Use Restr	iction ((ELUR) insp	ections.		
	e FY 2016 Actual	FY 2	016 Goal	FY 2017 Goal	FY 2018 Goal	
Unit of Measur			3	3	3	

effective manner.

GOAL ACTION FOR ACHIEVEMENT BY KEY CODE:

Provide quality and expedient sample collection, data analyses and water quality monitoring to evaluate NBC's impacts and document improvements • EP 4

TARGET MEASURE:

Collect samples to support water quality monitoring efforts										
_	Unit of Measure	FY 2016 Actual	_	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal				
_	River	5,156 Samples		100%	100%	100%				
	Bay	3,253 Samples		100%	100%	100%				
TARGET MEASURE:										
Publish monitoring activities and analyses for prior year on NBC's website by due date										
	Unit of Measure	FY 2016 Actual	_	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal				
	Date	4/27/2016		4/30/2016	4/30/2017	4/30/2018				
TARGET ME	EASURE:									
Annuall	ly deploy fixed site	monitoring equipm	nen	it at a minimum	of 2 sites					
	Unit of Measure	FY 2016 Actual	_	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal				
	Quantity	2		2	2	2				
TARGET ME	EASURE:									
Determine impact of nutrient reductions on ecology through video monitoring a minimum of 4/year										
Determ	inte inipact of nut	ient reductions on	Unit of Measure FY 2016 Actual FY 2016 Goal FY 2017 Goal FY 2018 Goal							
Determ	•		_	•	•	-				

STAFFING:	ING: Attract, develop and retain highly qualified employ						
GOAL ACTION FOR ACHIEVEMENT BY							
Foster a positive working environment through effective communication • S 2 TARGET MEASURE:							
Conduct monthly data meetings to disseminate data and optimize operations							
Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal			
Frequency	12	12	12	12			

Provide a minimum of 250 training hours

Unit of Measure	FY 2016 Actual	FY 2016 Goal	FY 2017 Goal	FY 2018 Goal
Hours	623	250	250	250



RESOLUTION 2017: 25

FISCAL YEAR 2018 OPERATING BUDGET

1. The Board of Commissioners adopts this budget based upon the following schedule of projected revenue:

	Revenue
Operating Revenue:	
User Fees	\$ 97,058,926
Pretreatment Fees	1,100,000
Septage	325,000
Connection Permit Fees	130,000
Sub-total Operating Revenue	98,613,926
Non-Operating Revenue:	
Investment Income	120,000
Late Charges	900,000
Transfer from Operating Capital	5,310,678
Revenue Fund Balance	-
Miscellaneous	286,400
Renewable Energy Credits*	371,885
Sub-total Non-Operating Revenue	 6,988,963
Total Revenue	\$ 105,602,889

2. The Board of Commissioners adopts this budget based upon the following schedule of projected expense.

	Expense
O & M Expense:	
Personnel	\$ 25,264,376
Operating Supplies/Expense	15,308,168
Professional Services	1,236,050
Sub-total Operating Expense	41,808,594
Debt Service:	
Debt Service	46,786,894
Programmed New Debt	-
Sub-total Debt Service	46,786,894
Debt Service Coverage	11,696,723
Operating Capital Outlays	5,310,678
Total Expense	\$ 105,602,889

- 3. The number of full-time equivalent positions funded in this budget is 269. A list of the funded positions is included as part of this Resolution as Attachment 1.
- 4. The Finance Committee and the Executive Director shall at all times seek to ensure that total operating expense, including debt service and operating capital, do not exceed \$93,906,166 for the period July 1, 2017 to June 30, 2018.
- 5. The Executive Director shall administer this budget consistent with the restricted accounts as so ordered by the Public Utilities Commission until such time as the restricted accounts are modified, adjusted or amended.
- 6. The Executive Director shall administer this budget consistent with the Trust Indenture and all Supplemental Trust Indentures.
- 7. The Executive Director and Director of Administration and Finance are hereby authorized to finance FY 2018 Operating Capital and capital projects included in the NBC's 2019 2023 Capital Improvement Program from the Operating Capital Account of the Project Fund. The Director of Administration and Finance may authorize changes in Budgeted Operating Capital as long as the total expenditures do not exceed the total amount approved for Operating Capital. Any changes to the Budgeted Operating Capital in excess of \$50,000 shall also be approved by the Finance Committee.
- 8. The Executive Director is hereby authorized to expend funds on capital projects for preliminary planning, staff time and other services in order to assess project need, scope and feasibility prior to project review and approval by the Board for inclusion in the CIP and/or as separate stand-alone projects.
- 9. For the period of July 1, 2017 to June 30, 2018:
 - a. The Executive Director shall provide a report to the Finance Committee of all purchase requisitions greater than \$10,000 for items included in this budget. The Executive Director will present all purchase requisitions greater than \$50,000 not included in the budget for approval by the Finance Committee.
 - b. Personnel Committee review and approval is required for the creation of new positions and the upgrading of existing positions not included in this budget. Finance Committee approval is also required if the action will result in a net increase in operating costs. The Executive Director may post and fill vacancies of existing positions, modified positions or newly created positions included in this budget as well as changes as outlined in this item 9b.
 - c. The Finance Committee will review and approve the monthly financial statements, including the status of the budget versus expense, prior to presentation at the monthly Board Meeting.

- d. This budget shall include a 5% employer contribution to the non-union defined contribution retirement plan, funding of the employer share of the non-union defined benefit plan and an employer contribution to the union retirement plan at the rate established by the State Retirement Board. Budgeted operating and maintenance funds unspent at the end of the fiscal year may be used to increase the employer contribution to the non-union defined benefit plan as long the action does not preclude NBC from meeting its coverage requirements.
- 10. The Director of Administration & Finance may make adjustments between line items within categories, adjustments between categories and adjustments between cost centers. The Executive Director shall notify the Finance Committee on a monthly basis of all such adjustments.

ADOPTED ON: _____

SIGNED:



SECTION	TITLE	FTE's	UNION/NON-UNION
21	DIRECTOR OF EXECUTIVE AFFAIRS	1	NON-UNION
21	ENVIRONMENTAL EDUCATION COORDINATOR	1	NON-UNION
21	EXECUTIVE ASSISTANT	1	NON-UNION
21	EXECUTIVE DIRECTOR	1	NON-UNION
21	GOVERNMENT AFFAIRS MANAGER	1	NON-UNION
21	LABOR AND EMPLOYEE RELATIONS MANAGER	1	NON-UNION
21	PUBLIC AFFAIRS MANAGER	1	NON-UNION
21	PUBLIC AFFAIRS SPECIALIST	1	NON-UNION
		8	
22	CONSTRUCTION MANAGER	1	NON-UNION
22	CONSTRUCTION OFFICE COORDINATOR	1	NON-UNION
22	CSO CONSTRUCTION MANAGER	1	NON-UNION
22	DIRECTOR OF CONSTRUCTION AND ENGINEERING	1	NON-UNION
22	ENGINEERING CONSTRUCTION COORDINATOR	1	NON-UNION
22	MECHANICAL INSPECTOR	1	NON-UNION
22	RESIDENT REPRESENTATIVE	3	NON-UNION
22	SENIOR CONSTRUCTION COORDINATOR	1	NON-UNION
		10	
25	ENGINEERING MANAGER	1	NON-UNION
25	ENVIRONMENTAL ENGINEER	1	NON-UNION
25	FACILITIES ENGINEER	1	NON-UNION
25	PERMITS COORDINATOR	1	NON-UNION
25	PRINCIPAL ENVIRONMENTAL ENGINEER	2	NON-UNION
		6	
23	HUMAN RESOURCES CLERK	1	UNION
23	HUMAN RESOURCES MANAGER	1	NON-UNION
23	HUMAN RESOURCES REPRESENTATIVE/BENEFITS COORDINATOR	1	NON-UNION
23	SENIOR HUMAN RESOURCES REPRESENTATIVE	1	NON-UNION
		4	
24	CHIEF LEGAL COUNSEL	1	NON-UNION
24	EXECUTIVE PARALEGAL	1	NON-UNION
24	EXECUTIVE PARALEGAL II	1	NON-UNION
24	LEGAL COUNSEL	2	NON-UNION
		5	
31	ADMINISTRATIVE ASSISTANT	1	NON-UNION
31	COMPLIANCE ANALYST	1	NON-UNION
31	DIRECTOR OF ADMINISTRATION AND FINANCE	1	NON-UNION
31	FINANCIAL ANALYST	1	NON-UNION
31	RATE ANALYST	1	NON-UNION
31	SENIOR BUDGET ANALYST	1	NON-UNION
		6	

SECTION	TITLE	FTE's	UNION/NON-UNION
32	ACCOUNTING MANAGER	1	NON-UNION
32	CAPITAL ACCOUNTING ASSISTANT	1	NON-UNION
32	CAPITAL PRINCIPAL ACCOUNTANT	1	NON-UNION
32	FISCAL CLERK	1	UNION
32	PAYROLL ADMINISTRATOR	1	NON-UNION
32	PAYROLL SUPERVISOR	1	NON-UNION
32	PRINCIPAL ACCOUNTANT	1	NON-UNION
32	SENIOR FISCAL CLERK	1	UNION
32	STAFF ACCOUNTANT	2	NON-UNION
		10	
33	COMPUTER TRAINING SUPPORT SPECIALIST	1	NON-UNION
33	INFORMATION TECHNOLOGY MANAGER	1	NON-UNION
33	JUNIOR NETWORKS & COMMUNICATION ADMINISTRATOR	1	NON-UNION
33	SENIOR NETWORK AND COMMUNICATIONS ADMINISTRATOR	1	NON-UNION
33	PC/PHONE SUPPORT/SYSTEMS ADMINISTRATOR SPECIALIST	1	NON-UNION
33	SENIOR .NET DEVELOPER	1	NON-UNION
33	SENIOR APPLICATIONS SYSTEM SUPERVISOR	1	NON-UNION
33	SENIOR DATABASE ADMINISTRATOR	1	NON-UNION
33	SENIOR DATABASE AND LINUX ADMINISTRATOR	1	NON-UNION
33	SENIOR SYSTEMS ADMINISTRATOR	1	NON-UNION
33	SENIOR SYSTEMS DEVELOPMENT PROGRAMMER	1	NON-UNION
33	SYSTEMS DESIGN PROGRAMMER	1	NON-UNION
		12	
34	ASSISTANT BILLING SUPERVISOR	1	NON-UNION
34	ASSISTANT COLLECTIONS SUPERVISOR	1	NON-UNION
34	BILLING SUPERVISOR	1	NON-UNION
34	COLLECTIONS ANALYST	1	NON-UNION
34	COLLECTIONS SUPERVISOR	1	NON-UNION
34	CUSTOMER SERVICE REPRESENTATIVE - FISCAL CLERK	2	UNION
34	CUSTOMER RESEARCH SUPERVISOR	1	NON-UNION
34	CUSTOMER SERVICE ANALYST	2	NON-UNION
34	CUSTOMER SERVICE MANAGER	1	NON-UNION
34	CUSTOMER SERVICE REPRESENTATIVE	8	UNION
34	CUSTOMER SERVICE SUPPORT SUPERVISOR	1	UNION
34	FIELD INVESTIGATOR	3	UNION
34	FISCAL CLERK - CUSTOMER SERVICE	1	UNION
34	SENIOR FISCAL CLERK	1	UNION
		25	
36	OFFICE ADMINISTRATOR	1	NON-UNION
36	PURCHASING COORDINATOR	1	NON-UNION
36	PURCHASING MANAGER	1	NON-UNION
		3	

Attachment 1

SECTION	TITLE	FTE's	UNION/NON-UNION
43	ASSISTANT INTERCEPTOR MAINTENANCE MANAGER	1	NON-UNION
43	CLERK	1	UNION
43	ENVIRONMENTAL ENGINEER	1	NON-UNION
43	INTERCEPTOR MAINTENANCE INSPECTOR	1	NON-UNION
43	INTERCEPTOR MAINTENANCE MANAGER	1	NON-UNION
43	INTERCEPTOR MAINTENANCE SENIOR SUPERVISOR	1	NON-UNION
43	INSTRUMENTATION ENGINEER	1	NON-UNION
43	OPERATOR	10	UNION
43	SENIOR TECHNICAL ASSISTANT	1	NON-UNION
		18	•
44	ASSET MANAGEMENT ADMINISTRATOR	1	NON-UNION
44	ASSISTANT CONTROL SYSTEM ADMINISTRATOR	1	NON-UNION
44	CONTROL SYSTEMS ADMINISTRATOR	1	NON-UNION
44	CONTROL SYSTEMS ASSOCIATE	1	NON-UNION
44	DIRECTOR OF OPERATIONS AND MAINTENANCE	1	NON-UNION
44	OPERATIONS AND MAINTENANCE FISCAL COORDINATOR	1	NON-UNION
44	OPERATIONS AND MAINTENANCE INSURANCE COORDINATOR	1	NON-UNION
		7	
46	ASSISTANT OPERATIONS MANAGER	1	NON-UNION
46	CLERK	1	UNION
46	ELECTRONICS AND INSTRUMENTATION TECHNICIAN	2	UNION
46	ELECTRICIAN	3	UNION
46	FLEET MECHANIC	1	UNION
46	INVENTORY CONTROL CLERK	2	UNION
46	LEAD ELECTRICIAN	1	UNION
46	MAINTENANCE MANAGER	1	NON-UNION
46	MAINTENANCE SUPERVISOR	2	NON-UNION
46	MECHANIC	11	UNION
46	OPERATIONS AND MAINTENANCE COORDINATOR	1	NON-UNION
46	OPERATIONS AND MAINTENANCE TECHNICIAN	1	NON-UNION
46	OPERATIONS MANAGER	1	NON-UNION
46	OPERATIONS SUPERVISOR	5	NON-UNION
46	OPERATOR	11	UNION
46	PROCESS MONITOR	8	UNION
46	SENIOR ELECTRONICS AND INSTRUMENTATION TECHNICIAN	1	UNION
46	SENIOR PROCESS MONITOR	1	UNION
		54	
47	ASSET MANAGEMENT FOREMAN	1	UNION
47	ASSISTANT ELECTRONICS AND INSTRUMENTATION TECHNICIAN	1	UNION
47	ASSISTANT OPERATIONS MANAGER	1	NON-UNION
47	ASSISTANT MAINTENANCE PLANNER/SCHEDULER	1	UNION
47	CLERK	1	UNION
47	ELECTRONICS AND INSTRUMENTATION TECHNICIAN	1	UNION

			UNION/NON-UNION
47	ELECTRICAL FOREMAN	1	UNION
47	ELECTRICIAN	2	UNION
47	HEAVY EQUIPMENT OPERATOR	1	UNION
47	INVENTORY CONTROL CLERK	1	UNION
47	MAINTENANCE MANAGER	1	NON-UNION
47	MAINTENANCE PLANNER/SCHEDULER	1	UNION
47	MAINTENANCE SUPERVISOR	1	NON-UNION
47	MECHANIC	6	UNION
47	OPERATIONS FOREMAN	1	UNION
47	OPERATIONS MANAGER	1	NON-UNION
47	OPERATIONS SUPERVISOR	4	NON-UNION
47	OPERATOR	8	UNION
47	PROCESS MONITOR	9	UNION
47	SENIOR ELECTRONICS AND INSTRUMENTATION TECHNICIAN	1	UNION
47	UTILITY CREW FOREMAN	1	UNION
		45	
51	DIRECTOR OF ENVIRONMENTAL SCIENCE AND COMPLIANCE	1	NON-UNION
51	ENVIRONMENTAL COORDINATOR	1	NON-UNION
51	ENVIRONMENTAL SCIENTIST	1	NON-UNION
51	PLANNING MANAGER	1	NON-UNION
		4	
52	ASSISTANT PRETREATMENT MANAGER	1	NON-UNION
52	PRETREATMENT CLERK	3	UNION
52	PRETREATMENT ENGINEER	2	NON-UNION
52	PRETREATMENT MANAGER	1	NON-UNION
52	PRETREATMENT TECHNICIAN	5	NON-UNION
52	PRINCIPAL PRETREATMENT ENGINEER	1	NON-UNION
52	SENIOR PRETREATMENT TECHNICIAN	1	NON-UNION
		14	
53	ASSISTANT LABORATORY MANAGER	1	NON-UNION
53	BIOLOGIST	1	UNION
53	CHEMIST	2	UNION
53	CLERK	1	UNION
53	ENVIRONMENTAL CHEMIST	2	NON-UNION
53	LABORATORY MANAGER	1	NON-UNION
53	SAMPLE COMPLIANCE COORDINATOR	1	NON-UNION
53	QUALITY CHEMIST	1	NON-UNION
53	SENIOR ENVIRONMENTAL CHEMIST	1	NON-UNION
53	SENIOR ORGANIC CHEMIST	1	NON-UNION
53	TECHNICIAN	5	UNION
		17	

SECTION	TITLE	FTE's	UNION/NON-UNION
54	ENVIRONMENTAL COMPLIANCE TECHNICAL ASSISTANT	1	NON-UNION
54	ENVIRONMENTAL SAFETY & TECHNICAL ASSISTANCE MANAGER	1	NON-UNION
54	ENVIRONMENTAL SUSTAINABILITY ENGINEER	1	NON-UNION
54	SAFETY COMPLIANCE COORDINATOR	1	NON-UNION
		4	
55	ASSISTANT ENVIRONMENTAL MONITORING MANAGER	1	NON-UNION
55	CLERK	1	UNION
55	ENVIRONMENTAL DATA ANALYST	1	NON-UNION
55	ENVIRONMENTAL MONITOR	8	UNION
55	ENVIRONMENTAL MONITORING MANAGER	1	NON-UNION
55	ENVIRONMENTAL SCIENTIST	2	NON-UNION
55	MONITORING FIELD SUPERVISOR	3	NON-UNION
		17	
	TOTAL FTEs	269	

Budgeted Benefits Comparison

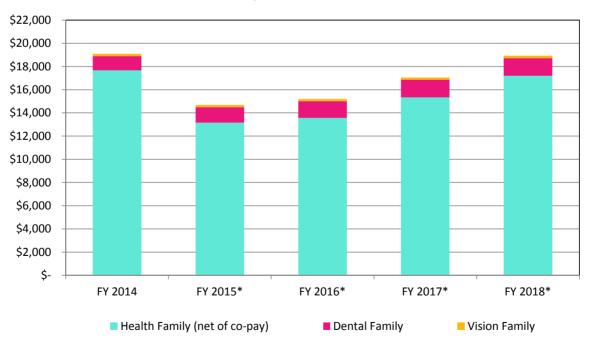
The FY 2018 budget reflects an increase in health insurance premiums in the High Deductible Health Plan (HDHP) of 12.1% with partial employer funding of a Health Savings Account (HSA) or Health Reimbursement Arrangement (HRA). The average budgeted co-pay is 20%. Dental insurance premiums remain unchanged from FY 2017 and vision insurance premiums increased by 11.3%. The table below shows the budgeted family health, dental and visions premiums.

Expense Category		FY 2014	FY 2015*	FY 2016*	FY 2017*	FY 2018*
Health Family (net of co-pay)		\$17,673	\$13,156	\$ 13,576	\$ 15,342	\$ 17,202
Dental Family		1,228	1,335	1,435	1,515	1,510
Vision Family		195	195	195	195	217
	Total	\$19,096	\$ 14,686	\$ 15,206	\$ 17,052	\$ 18,929

*Does not include \$3,600 NBC HSA Contribution/Employee

Other Benefits:					
State Retirement (Union)	24.33%	24.33%	24.64%	26.34%	26.34%
Non-Union Retirement	10.00%	10.00%	10.00%	10.00%	10.00%
FICA**	6.20%	6.20%	6.20%	6.20%	6.20%
Medicare	1.45%	1.45%	1.45%	1.45%	1.45%
Retirement Health (Union)	7.80%	6.75%	6.75%	5.97%	5.97%

**FICA is 6.2% on wages up to \$118,500

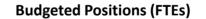


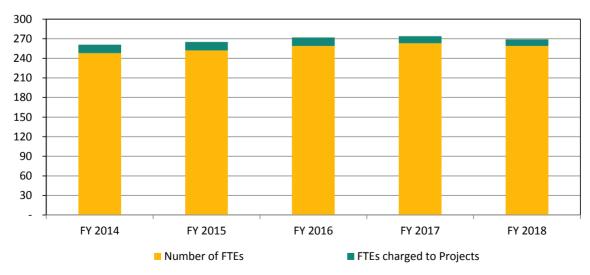
Budgeted Benefits

Budgeted Positions Comparison

The total number of FTEs funded in FY 2018 is 267.0 positions, which is five less than the prior year. NBC's FY 2018 budget reflects implementation of a reorganization. A new cost center was created and the personnel and support costs associated with the Engineering functions were transferred to this new section. A number of changes to Division and Section names were also implemented to reflect the primary responsibilities as they have been assigned. The other significant organizational change is the reallocation of four positions responsible for the process control and asset management functions to the newly named Operations & Maintenance Services section. One additional non-union position is funded in the finance section and one less union position is funded in the Purchasing section. On a year-to-year basis, there are 6.0 fewer union FTEs and 1.0 additional non-union FTE.

Program	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Executive Affairs	8	8	8	8	8
Construction	13	13	11	11	10
Engineering	-	-	-	-	6
Human Resources	4	4	4	4	4
Legal	5	5	5	5	5
Finance	5	5	5	5	6
Accounting	10	10	10	10	10
Information Technology	12	12	12	12	12
Customer Service	24	24	25	25	25
Purchasing	4	4	4	4	3
Interceptor Maintenance	20	20	20	20	18
Operations & Maintenance Services	9	9	9	9	7
Field's Point	57	59	59	59	54
Bucklin Point	34	35	43	45	45
Water Quality & Compliance	5	5	5	5	4
Pretreatment	14	14	14	14	14
Laboratory	16	17	17	17	17
ESTA	4	4	4	4	4
EMDA	17	17	17	17	17
Total	261	265	272	274	269





FY 2018 Operating Capital

Section	Budget Account	Allocation	Asset Type	Asset Title	Approved Budget
	Account	Anocation	Asset Type	Aber Mie	Budget
Executive	16600	18-021-001	Replacement	Replace V362	\$ 40,000
Executive	10000	10-021-001	Replacement	Subtotal Executive	40,000
					.0,000
				Subtotal Executive Affairs	40,000
DNSTRUCTION & ENGINEERING					
Construction	16600	18-022-001	Replacement	Replace V479	30,000
				Subtotal Construction Services	30,000
Engineering	16600	18 025 001	Replacement	Vohicle V/424	20.00
Engineering	10000	10-025-001	Replacement	Subtotal Engineering	30,000
				Subtotul Engineering	50,000
				Subtotal Construction & Engineering	60,000
DMINISTRATION & FINANCE			_		
Finance	16620	18-031-001		NBC User Fee Aid Cost Recovery Study	250,000
Finance	16580	18-031-002	Rehabilitation	Office Reconfiguration	100,000
				Subtotal Finance	350,000
Human Resources	16580	18-023-001	Rehabilitation	Office Reconfiguration	50,000
				Subtotal Human Resources	50,000
Accounting	16580	18-032-001	Rehabilitation	Office Reconfiguration	75,000
, coouring	10000	10 002 001		Subtotal Accounting	75,000
Information Technology	16583	18-033-001	New	Customer Service Application	900,000
Information Technology	16600	18-033-002		SAN replacement	230,000
Information Technology	16600	18-033-003	•	Backup Solution Replacement	200,000
Information Technology	16583	18-033-004	New	Laboratory Information Management System (LIMS) Application	190,00
Information Technology	16600	18-033-005	Replacement	Annual PC Refresh Program Replacement	75,00
Information Technology	16583	18-033-006	New	Security Assessment	75,00
Information Technology	16600	18-033-007	Replacement	Edge Switch Upgrades	75,00
Information Technology	16583	18-033-008	New	Software Licensing Updates	40,00
Information Technology	16583	18-033-009	New	Oracle ERP/Database Enhancements	40,00
Information Technology	16585	18-033-010	New	Computer Room Enhancements	25,00
Information Technology	16583	18-033-011		Project Tracking Software	25,00
Information Technology	16583	18-033-012		Hansen Upgrades	20,00
Information Technology	16585	18-033-013	New	Conference Room Updates	15,00
Information Technology	16583	18-033-014		Antivirus Upgrades	10,00
	10000	10 000 011		Subtotal Information Technology	1,920,00
Customer Service	16600	18 024 001	Replacement	Vahiela V285	25,00
Customer Service	16580	18-034-001	-	Office Furniture and Equipment	
customer service	10560	16-034-002	Reliabilitation	Subtotal Customer Service	5,000
Conoral Administration	16610	10 000 001	Now	Kay Scan Entry and Socurity Compares	100.00
General Administration	16610	18-080-001		Key Scan Entry and Security Cameras	100,00
General Administration	16580	18-080-002		Office reconfiguration	50,00
General Administration	16520	18-080-003	-	HVAC component replacement	23,00
General Administration	16600	18-080-004	New	Phone system upgrade Subtotal General Administration	17,00
				Subtotal General Administration	190,000

	Budget				Approved
Section	Account	Allocation	Asset Type	Asset Title	Budget
OPERATIONS AND MAINTENANCE	16600	10 042 004	Bonlacomort	Vahida VA11	110 000
Interceptor Maintenance Interceptor Maintenance	16600 16600		Replacement Replacement		110,000 50,000
Interceptor Maintenance	16600	18-043-002	Replacement		35,000
Interceptor Maintenance	16600	18-043-003		Office Copier/Fax/Scanner	30,000
Interceptor Maintenance	16600	18-043-004	Replacement		10,000
Interceptor Maintenance	16510	18-043-006	•	Backhoe	9,000
	10510	10 0 15 000		Subtotal Interceptor Maintenance	244,000
Operations & Maintenance Services	16583	18-044-001		Wireless Network	60,000
Operations & Maintenance Services	16583	18-044-002		Software & Licenses	55,000
Operations & Maintenance Services	16585	18-044-003	New	PLC Upgrade	50,000
Operations & Maintenance Services	16585	18-044-004	New	Computer System Upgrade	30,000
				Subtotal Operations & Maintenance Services	195,000
Field's Point	16600	18-046-001	Replacement	Pumps	135,000
Field's Point	16600	18-046-002	Replacement	Vehicle V475	125,000
Field's Point	16520	18-046-003	New	Bobcat w/Attachments	75,000
Field's Point	16600	18-046-004	Replacement	Vehicle V448	60,000
Field's Point	16520	18-046-005	New	IFAS Tank Flight Mixer	45,000
Field's Point	16600	18-046-006	•	Tunnel Cameras and Server	40,000
Field's Point	16600	18-046-007	Replacement		35,000
Field's Point	16520	18-046-008	New	Turbine Network and Control Room Switches	30,000
Field's Point	16600	18-046-009	•	Under Flow Valve Actuators	30,000
Field's Point	16600	18-046-010	Replacement		30,000
Field's Point	16520	18-046-011		Conox Boxes	28,000
Field's Point	16600	18-046-012	•	Flow Measurement	25,000 18,000
Field's Point Field's Point	16600 16600	18-046-013 18-046-014	•	Vehicle E0015	18,000
Field's Point	16600	18-046-014	•	Vehicle E0020	17,000
Field's Point	16600	18-046-015	•	Vehicle E0026	17,000
Field's Point	16600	18-046-017	•	Copy Machine	10,400
Field's Point	16600	18-046-018	•	Copy Machine	8,000
Field's Point	16600	18-046-019		Replace O&M Copy Machine	8,000
			-	Subtotal Field's Point	753,400
Bucklin Point	16510	18-047-001		Forklift	80,000
Bucklin Point	16600		Replacement		70,000
Bucklin Point	16600		• .	VFD Effluent Pumps	70,000
Bucklin Point	16600	18-047-004		Thickener Waste Pump	55,000
Bucklin Point	16600	18-047-005	Replacement	-	50,000
Bucklin Point	16600	18-047-006	•	Booster Pump	38,000
Bucklin Point Bucklin Point	16600 16520	18-047-007 18-047-008		Screenings Grinder	35,000 30,000
Bucklin Point	16520	18-047-008		Storage Trailers UV Hydraulic Power System	25,000
Bucklin Point	16600	18-047-009		Gas Pressure Valves & Piping	25,000
Bucklin Point	16600	18-047-011	Replacement		25,000
Bucklin Point	16520	18-047-011	•	Genie Lift	25,000
Bucklin Point	16600		Rehabilitation		25,000
Bucklin Point	16600	18-047-014		Sludge Recirculation Pump	22,000
Bucklin Point	16600	18-047-015	•		20,000
Bucklin Point	16600		Replacement	•	20,000
Bucklin Point	16600	18-047-017	•		20,000
Bucklin Point	16600	18-047-018	Replacement		20,000
Bucklin Point	16600	18-047-019	-	Vehicle E0010	17,000
Bucklin Point	16600	18-047-020	-	Vehicle E0017	17,000
Bucklin Point	16600	18-047-021	•	Vehicle E0049	17,000
Bucklin Point	16600	18-047-022	Replacement	VFD Aeration Recycle Pumps	16,000
Bucklin Point	16520	18-047-023	New	Cameras	15,000
Bucklin Point	16520	18-047-024	New	Cameras	15,000
Devil I'm Defei	16600	18-047-025	Replacement	Vahida V200	15,000
Bucklin Point	10000	10-047-025	Replacement	Vehicle V599	15,000

Section	Budget Account	Allocation	Asset Type	Asset Title	Approved Budget
Bucklin Point	16520	18-047-027	Replacement	Gate Controller	10,000
Bucklin Point	16600	18-047-028	Replacement	Scum Pump	10,000
Bucklin Point	16600	18-047-029	Replacement	Scum Pump	10,000
Bucklin Point	16600	18-047-030	Replacement	Centrate Pump	10,000
Bucklin Point	16600	18-047-031	Replacement	Bisulfite Pump	6,000
Bucklin Point	16600	18-047-032	Replacement	Bisulfite Pump	6,000
Bucklin Point	16600	18-047-033	New	Bobcat Welder	6,000
				Subtotal Bucklin Point	840,000
				Subtotal Operations & Maintenance	2,032,400
ENVIRONMENTAL SCIENCE & COM	PLIANCE				
Laboratory	16600	18-053-001	Replacement	ICP-IND	131,201
Laboratory	16600	18-053-002	Replacement	Cyanide Analyzer	68,155
Laboratory	16600	18-053-003	Replacement	Oil and Grease Analyzer	51,150
Laboratory	16600	18-053-004	Replacement	Biological Media Dispenser	49,272
				Subtotal Laboratory	299,778
EMDA	16600	18-055-001	Replacement	Phillipsdale DCP, Sondes & Assoc. Equip.	65,000
EMDA	16520	18-055-002	Replacement	Fixed Site Sondes & Equipment	50,000
EMDA	16600	18-055-003	New	Swipe Card Readers	50,000
EMDA	16600	18-055-004	Replacement	Vehicle V432	34,000
EMDA	16600	18-055-005	Replacement	Fixed Site Probes, Handheld Meter, Solutions/Equipment	30,000
EMDA	16600	18-055-006	Replacement	Refrigerated Autosamplers	19,500
EMDA	16600	18-055-007	Replacement	Caribe Boat	15,000
				Subtotal EMDA	263,500
				Subtotal Environmental Science & Compliance	563,278

Total Operating Capital FY 2018 \$ 5,310,678

Five-Year Operating Capital

Asset Type	Asset Title	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Cost
EXECUTIVE AFFA	IRS						
Executive Replacement	Vehicle V362	\$ 40,000	\$-	\$-	\$-	\$-	\$ 40,000
Replacement	Subtotal Executive	40,000	ې د		- در -		40,000
	-						
	& ENGINEERING						
Construction Replacement	Vehicle V479	30,000	30,000	_		_	60,000
Replacement	Subtotal Construction Services	30,000	30,000	-	-	-	60,000
	-	,	,				,
Engineering							
Replacement Replacement	Vehicle V434 GPS Rover	30,000	-	-	-	- 25,000	30,000 25,000
Replacement	Total Station Survey Equipment	_	_	-	-	13,000	13,000
-	Subtotal Engineering	30,000	-	-	-	38,000	68,000
	-						
ADMINISTRATIC	ON & FINANCE						
Finance Rehabilitation	Office Reconfiguration	100,000	-	-	-	-	100,000
New	CSO Phase III Rate Study	250,000	-	-	-	-	250,000
	, Subtotal Finance	350,000	-	-	-	-	350,000
Human Resource Rehabilitation	es Office Reconfiguration	50,000	_	_	_		50,000
Renabilitation	Subtotal Human Resources	50,000	-	-	-		50,000
		,					
Accounting							
Rehabilitation	Office Reconfiguration	75,000	-	-	-	-	75,000
	Subtotal Accounting	75,000	-	-	-	-	75,000
Information Tec	hnology						
New	Customer Service Application	900,000	300,000	25,000	-	25,000	1,250,000
Replacement	SAN replacement	230,000	-	-	-	-	230,000
Replacement	Backup Solution Replacement	200,000	-	-	-	-	200,000
New Replacement	Laboratory Information Management System (LIMS) Application Annual PC Refresh Program Replacement	190,000 75,000	- 75,000	50,000 75,000	- 75,000	50,000 75,000	290,000 375,000
New	Security Assessment	75,000	-	75,000	-	75,000	225,000
Replacement	Edge Switch Upgrades	75,000	-	50,000	-	50,000	175,000
New	Software Licensing Updates	40,000	40,000	40,000	40,000	40,000	200,000
New	Oracle ERP/Database Enhancements	40,000	-	-	-	-	40,000
New	Computer Room Enhancements	25,000	25,000	25,000	25,000	25,000	125,000
New New	Project Tracking Software Hansen Upgrades	25,000 20,000		25,000 20,000	-	25,000 20,000	75,000 60,000
New	Conference Room Updates	15,000	15,000	15,000	15,000	15,000	75,000
New	Antivirus Upgrades	10,000	10,000	10,000	10,000	10,000	50,000
Replacement	Network Core Replacement	-	150,000	-	-	-	150,000
New	Microsoft Office 2016 Upgrade	-	125,000	-	-	-	125,000
Replacement	Disaster Recovery Infrastructure Replacement Microsoft Exchange Upgrade	-	75,000	-	90,000	-	165,000 50,000
New Replacement	Replace large form scanner/printer	-	50,000	- 35,000	-	-	35,000
	Subtotal Information Technology	1,920,000	865,000	445,000	255,000	410,000	3,895,000
	· · · · ·		-		· · · ·	-	
Customer Servic						- 000	25.000
Rehabilitation Replacement	Office Furniture/Equipment	5,000	5,000	5,000	5,000	5,000	25,000 25,000
Replacement	Vehicle V385 Vehicle V377	25,000	- 25,000	-	-	-	25,000
Replacement	Vehicle V404	-	- 23,000	25,000	-	-	25,000
Replacement	Vehicle V403	-	-		25,000	-	25,000
Replacement	Vehicle	-	-	-	-	25,000	25,000
	Subtotal Customer Service	30,000	30,000	30,000	30,000	30,000	150,000
General Adminis	stration						
New	Key Scan Entry and Security Cameras	100,000	-	-	-	-	100,000
Rehabilitation	Office reconfiguration	50,000	-	-	-	-	50,000
Replacement	HVAC component replacement	17,000	18,000	19,000	20,000	21,000	95,000
New	Phone system upgrade	23,000	-	-	-	-	23,000
Replacement	Copier replacement Subtotal General Administration	- 190,000	10,000 28,000	- 19,000	10,000 30,000	- 21,000	20,000 288,000
	Subtotal General Administration	190,000	20,000	13,000	50,000	21,000	200,000

Asset Type	Asset Title	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Cost
OPERATIONS A	ND MAINTENANCE						
Interceptor Mai							
Replacement	Vehicle V412	110,000	-	-	-	-	110,00
Replacement	Flow Meters	50,000	25,000	25,000	25,000	25,000	150,00
Replacement	Vehicle V411	35,000	-	-	-	-	35,00
Replacement	Fencing	30,000	-	-	-	-	30,00
Replacement	Office Copier/Fax/Scanner	10,000	-	-	-	-	10,00
New	Backhoe	9,000	-	-	-	-	9,00
Replacement	HVAC Upgrade	-	20,000	70.000	-	-	20,00
Replacement	Vehicle V455	-	-	70,000	-	-	70,00
Replacement	Vehicle V355	-	-	-	35,000	-	35,00 35,00
Replacement	Vehicle V387	-	-	-	35,000	-	25,00
Replacement	Vehicle V367	-	-	-	25,000		-
Replacement	Vehicle V375	-	-	-	-	140,000	140,00
Replacement	Vehicle E0007 Subtotal Interceptor Maintenance	- 244,000	45,000	- 95,000	120,000	50,000 215,000	50,00 719,00
		211,000	10,000	50,000	120,000	210,000	, 10,00
•	laintenance Services	FF 000	10,000	70.000			141.00
lew	Software & Licenses	55,000	16,000	70,000	-	-	141,00
New	PLC Upgrade	50,000	-	-	-	-	50,00
lew	Computer System Upgrade	30,000	84,000	20,000	-	-	134,00
lew	Wireless Network Subtotal Interceptor Maintenance	60,000 195,000	60,000 160,000	- 90,000	-	-	120,00 445,00
	Subtotal interceptor Maintenance	195,000	100,000	90,000		-	443,00
ield's Point							
Replacement	Pumps	135,000	-	-	-	-	135,00
Replacement	Vehicle V475	125,000	-	-	-	-	125,00
lew	Bobcat w/Attachments	75,000	-	-	-	-	75,00
eplacement	Vehicle V448	60,000	-	-	-	-	60,00
lew	IFAS Tank Flight Mixer	45,000	-	-	-	-	45,00
eplacement	Tunnel Cameras and Server	40,000	-	-	-	-	40,00
eplacement	RAS Pump	35,000	-	-	-	-	35,00
lew	Turbine Network and Control Room Switches	30,000	-	-	-	-	30,00
Replacement	Under Flow Valve Actuators	30,000	-	-	-	-	30,00
Replacement	Vehicle V477	30,000	-	-	-	-	30,00
New	Conox Boxes	28,000	-	-	-	-	28,00
Replacement	Flow Measurement	25,000	-	-	-	-	25,00
Replacement	Scum Pump	18,000	-	-	-	-	18,00
Replacement	Vehicle E0015	17,000	-	-	-	-	17,00
Replacement	Vehicle E0020	17,000	-	-	-	-	17,00
leplacement	Vehicle E0026	17,000	-	-	-	-	17,00
Replacement	Copy Machine	10,400	-	-	-	-	10,40
Replacement	Copy Machine	8,000	-	-	-	-	8,00
Replacement	Replace O&M Copy Machine	8,000	-	-	-	-	8,00
Replacement	Sewage Pump Cartridge	-	160,000	-	-	-	160,00
eplacement	Vehicle E0009	-	75,000	-	30,000	-	105,00
Replacement	Metering Pumps	-	54,000	-	-	-	54,00
Replacement	Effluent Cylinders	-	52,000	54,000	-	-	106,00
eplacement	Vehicle V438	-	50,000	-	-	-	50,00
Replacement	Vehicle V447	-	40,000	-	-	-	40,00
Replacement	RAS Pump	-	35,000	-	-	-	35,00
eplacement	RAS Pump	-	35,000	-	-	-	35,00
eplacement	Vehicle V379	-	35,000	-	-	-	35,00
eplacement	Vehicle V446	-	35,000	-	-	-	35,00
eplacement	Vehicle V406	-	32,000	-	-	-	32,00
eplacement	Vehicle V405	-	28,000	-	-	-	28,00
eplacement	Grit Aeration Blowers	-	25,000	-	28,000	-	53,00
eplacement	Grit Pump w/Motor	-	25,000	-		-	25,00
eplacement	Hypo Pump & Motor	-	25,000	-	-	-	25,00
eplacement	Vehicle V442	-	25,000	-	-	-	25,00
eplacement	Vehicle V465	_	25,000	-	-	_	25,00
eplacement	Vehicle V487	-	25,000	-	-	-	25,00
leplacement	Underflow Valve Actuator	-	20,000	-	-	-	20,00
-		-	20,000 19,000	-	-	-	
Replacement	Sludge Pump			-	-		19,00 32,00
Replacement	Vehicle E0040	-	18,000	-	14,000	-	
Replacement	Vehicle E0028	-	18,000	-	-	-	18,00
Replacement	Dewatering Pump	-	16,000	-	-	-	16,00
Replacement	VFD Was Pump	-	7,000	-	-	-	7,00
Replacement	Sewage Pump Cartridge	-	-	160,000	-	-	160,00
Replacement	Sewage Pump Cartridge		-	150,000			150,00

Asset Type	Asset Title	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Cost
Replacement	Sewage Pump Cartridge	-		150,000	-	-	150,000
Replacement	Butterfly Valve	-	-	90,000	-	-	90,000
Replacement	Grit Tank Gearbox & Clutch Assemblies	-	-	75,000	-	-	75,000
Replacement	Tank Turntable Assembly	-	-	75,000	-	-	75,000
Replacement	Plunger Sewage Pump	-	-	50,000	-	-	50,000
Replacement	Return Sludge Pump	-	-	27,500	-	-	27,500
Replacement	Vehicle V495	-	-	23,000	-	-	23,000
Replacement	Sludge Pump	-	-	22,000	-	-	22,000
Replacement	Nitrate Probe	-	-	16,000	-	-	16,000
Replacement	Vehicle E0004	-	-	14,000	-	-	14,000
Replacement	Wasting Pump	-	-	13,000	-	-	13,000
Replacement	Sodium Bisulfite Analyzer	-	-	12,000	-	-	12,000
Replacement	VFD Plant Water Pump	-	-	12,000	-	-	12,000
Replacement	Vehicle V396	-	-	10,000	-	-	10,000
Replacement	VFD Grit Pump	-	-	8,000	-	-	8,000
Replacement	TSS Meter	-	-	8,000	-	-	8,000
Replacement New	PH Probe VFD Blowers	-	-	8,000 8,000	-		8,000 8,000
	Vehicle V384	-	-	-	-	-	7,000
Replacement Replacement	VFD RAS & RAS/Dewatering Pump	-	-	7,000 6,000	-	-	6,000
Replacement	Sewage Pump Cartridge			0,000	165,000	-	165,000
Replacement	Sewage Pump Motor			_	165,000	-	165,000
Replacement	Sewage Pump Motor	-		_	125,000	-	125,000
Replacement	Tank Turntable Assembly	-	-	-	75,000	-	75,000
Replacement	Sewage Pump Motor	-	-	-	50,000	_	50,000
Replacement	Sodium Bisulfite Tank	-	-	-	35,000	-	35,000
Replacement	Vehicle V375	-	-	-	35,000	-	35,000
Replacement	Uninterrupted Power Supply	-	-	-	30,000	-	30,000
Replacement	Return Sludge Pump	-	-	-	30,000	-	30,000
New	Flow Meters	-	-	-	25,000	-	25,000
Replacement	Vehicle E0024	-	-	-	25,000	-	25,000
Replacement	VFD Grit Pump	-	-	-	24,000	-	24,000
Replacement	Final Tank Underflow Valve Actuator	-	-	-	22,000	-	22,000
Replacement	Metering Pump	-	-	-	20,000	-	20,000
Replacement	Wasting Pump	-	-	-	15,000	-	15,000
Rehabilitation	Hypo Storage Tank	-	-	-	12,000	-	12,000
Replacement	Grit Influent Ammonia Meter	-	-	-	10,000	-	10,000
Replacement	Vehicle E0025	-	-	-	10,000	-	10,000
Rehabilitation	Rake Drum Motor	-	-	-	6,000	-	6,000
Rehabilitation	Clam Shell Motor	-	-	-	6,000	-	6,000
Rehabilitation	Trolley Motor	-	-	-	6,000	-	6,000
Replacement	Sewage Pump	-	-	-	-	250,000	250,000
Replacement	Hydroflo Screen	-	-	-	-	200,000	200,000
Replacement	Tank Turntable Assembly	-	-	-	-	80,000	80,000
Replacement	Process Control Unit	-	-	-	-	60,000	60,000
Rehabilitation	GT Domes	-	-	-	-	50,000	50,000
Rehabilitation	Tunnel Crane	-	-	-	-	50,000	50,000
Replacement	Sodium Bisulfite Tank	-	-	-	-	35,000	35,000
Replacement	Server Cabinet	-	-	-	-	30,000	30,000
Replacement	Flow Meters	-	-	-	-	25,000	25,000
Replacement	Ammonia Probe	-	-	-	-	20,000	20,000
Replacement	Vehicle E0069	-	-	-	-	20,000	20,000
Replacement	Vehicle E0070	-	-	-	-	20,000	20,000
Replacement	M&V Chamber Pump & Motor	-	-	-	-	19,000	19,000
Replacement	Crane Monitor Panel	-	-	-	-	10,000	10,000
Rehabilitation	Bridge Crane Drive Unit	-	-	-	-	6,000	6,000
Rehabilitation Rehabilitation	Bridge Crane Trolley Drive Unit Bridge Crane Drum Hoist		-	-	-	6,000 6,000	6,000 6,000
Kenabilitation		Subtotal Field's Point 753,400	879,000	998,500	963,000	887,000	4,480,900
	3	133,400 / 133,400	679,000	330,300	503,000	007,000	4,400,900
Bucklin Point							
New	Forklift	80,000	-	-	-	-	80,000
Replacement	Bar Rack	70,000	-	-	-	-	70,000
Replacement	VFD Effluent Pumps	70,000	-	-	-	-	70,000
Replacement	Thickener Waste Pump	55,000	-	-	-	-	55,000
Replacement	Screw Pump	50,000	-	-	-	-	50,000
Replacement	Booster Pump	38,000	-	-	-	-	38,000
Rehabilitation	Screenings Grinder	35,000	-	-	25,000	-	60,000
New	Storage Trailers	30,000	-	-	-,	-	30,000
Rehabilitation	UV Hydraulic Power System	25,000	-	-	-	-	25,000
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Asset Type	Asset Title	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Cost
Replacement	Gas Pressure Valves & Piping	25,000	-	-	-	-	25,000
Replacement	Vehicle V486	25,000	-	-	-	-	25,000
New	Genie Lift	25,000	-	-	-	-	25,000
Rehabilitation	Phone Lines	25,000	-	-	-	-	25,000
Replacement	Sludge Recirculation Pump	22,000	-	-	-	-	22,000
Replacement	Grit Pump	20,000	-	-	-	-	20,000
Replacement	Grit Pump	20,000	-	-	-	-	20,000
Replacement	Sludge Pump	20,000	-	-	-	-	20,000
Replacement	Нуро Ритр	20,000	-	-	-	-	20,000
Replacement	Vehicle E0010	17,000	-	-	-	-	17,000
Replacement	Vehicle E0017	17,000	-	-	-	-	1,,000
Replacement	Vehicle E0049	17,000	-	-	-	-	17,000
Replacement	VFD Aeration Recycle Pumps	16,000	-	-	-	-	16,000
New	Cameras	15,000	-	-	-	-	15,000
New	Cameras	15,000	-	-	-	-	10,000
Replacement	Vehicle V399	15,000	-	-	-	-	15,000
New	Remote Control Slope Cutter	15,000	-	-	-	-	10,000
Replacement	Gate Controller	10,000	-	-	-	-	10,000
Replacement	Scum Pump	10,000	-	-	-	-	10,000
Replacement	Scum Pump	10,000	-	-	-	-	10,000
Replacement	Centrate Pump	10,000	-	-	-	-	10,000
Replacement	Bisulfite Pump	6,000	-	-	-	-	0,000
Replacement	Bisulfite Pump	6,000	-	-	-	-	0,000
New	Bobcat Welder	6,000	-	-	-	-	0,000
Rehabilitation	Primary Digester	-	200,000	-	-	-	200,000
Replacement	Hypo Piping & Valves	-	120,000	-	-	-	120,000
Replacement	Bar Rack	-	75,000	-	-	-	75,000
Replacement	Pumps	-	40,000	-	-	-	40,000
Replacement	Air Handling Unit	-	40,000	-	-	-	40,000
Replacement	Dewatering Pump	-	35,000	-	-	-	55,000
Replacement	Vehicle V390	-	32,000	-	-	-	32,000
Replacement	Grit Pump	-	22,000	-	-	-	22,000
Replacement	Dewatering Pump	-	18,000	-	-	-	18,000
Replacement	Vehicle E0057	-	18,000	-	-	-	10,000
Replacement	Vehicle E0058	-	18,000	-	-	-	10,000
Replacement	Hoist	-	15,000	-	-	-	10,000
Replacement	EIM Limitorque Actuators & Gear Operator	-	12,000	-	-	-	12,000
Replacement	Vehicle E0100A	-	10,000	-	-	-	10,000
Replacement	Vehicle E0101A	-	8,000	-	-	-	8,000
Replacement Rehabilitation	Vehicle V382	-	8,000	200,000	-	-	8,000 200,000
	Primary Digester Bar Rack	-	-	75,000	-	-	200,000 75,000
Replacement Rehabilitation		-	-	60,000	-	-	60,000
Replacement	Effluent Pump Vehicle V382	-	-	40,000	-	-	40,000
•				35,000			35,000
Replacement Replacement	Dewatering Pump Collector Tank		-	32,000	-	-	32,000
Replacement	Vehicle V444			32,000		-	
•				30,000		-	30,000
Replacement Replacement	Effluent Booster Pump Air Handling Unit		-	30,000	-	-	
Replacement	Air Handling Unit		-	30,000		-	
Replacement	Sludge Pump		_	27,000		-	
Replacement	Flushing Water Pump		-	26,000		-	
Replacement	Hoist		_	25,000		-	
Replacement	Grit Pump		-	22,000		-	
Replacement	Dewatering Pump	-	_	20,000	_	-	
Replacement	Battery Replacement Generator			20,000		-	
Replacement	Bar Screen			20,000		-	
Replacement	Pump	-	_	20,000	-	-	
Replacement	Pump	-	_	20,000	_	-	
Replacement	Vehicle E0054	_	-	18,000	-	-	
Replacement	Vehicle E0055	_	-	18,000	-	-	
Replacement	Sump Pumps	-	-	15,000	-	-	
Rehabilitation	Centrifugal Blower Cartridge	_	-	15,000	-	-	
Replacement	Sludge Flow Meter		-	15,000	-	-	
Replacement	Bubbler System Flow Meter	_	-	12,000	-	-	
Replacement	Flow Meters, Bubbler, Gas Detection	_	-	12,000	-	-	12,000
Replacement	Vehicle V356	-	-	8,000	-	-	
Replacement	Meter	_	-	6,000	-	-	6,000
Replacement	Meter	_	-	6,000	-	-	6,000
Rehabilitation	Primary Digester	-	-		200,000	-	200,000
nendomtation					200,000		200,000

Replacement Primary Clamber Frum Table Collector Image: Collector Table Collector Table Collector M.0.00 M.0.000 M.0.000 Replacement Collector Table Collector Collector Collector Collector Table Collector Collector Collector Collector Collector Collector Collector Table Collector Collector Collector Table Collector Collector Collector Table Collector Collector Collector Collector Table Collector Collector Collector Collector Table Collector Collector Table Collector Collector Table Collector	Asset Type	Asset Title	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Cost
Brabintion Screening & Conveyor System -	Replacement	Primary Clarifier Turn Table Collector	-	-	-	80,000	-	80,000
Replacement Ort Collicor Dark - - - - </td <td>Rehabilitation</td> <td>Effluent Pump</td> <td>-</td> <td>-</td> <td>-</td> <td>60,000</td> <td>-</td> <td>60,000</td>	Rehabilitation	Effluent Pump	-	-	-	60,000	-	60,000
Bindball ReplacementReplacementVelule 1000NoneNoneNoneNoneNone<	Rehabilitation	Screening & Conveyor System	-	-	-	50,000	-	50,000
Repiscent Vehick '235 - - 4,000 - 5,000 - 5,000 Repiscent Collector Tark - - 3,000 - 3,000 Repiscent Collector Tark - - 3,000 - 3,000 Repiscent Collector Tark - - 3,000 - 3,000 Repiscent Collector Tark - - 2,000 - 2,000 Repiscent Collector Tark - - 2,000 - 2,000 Repiscent Vehick '000 - - 2,000 - 2,000 Repiscent Vehick '000 - - 1,000 - 1,000 Repiscent Vehick '000 - - 1,000 - 1,000 Repiscent Vehick '000 - - 2,000 - 1,000 Repiscent Vehick '000 - - 2,000 9,000 Repiscent	Replacement	Grit Collector Tank	-	-	-		-	-
Replacement Verkler V356 -			-	-	-		-	
Replacement Collector Task - - - - - - 32,000 - 32,000 Replacement Scam Pung Grinder Muffin Montar & Mus. - - - 32,000 - 32,000 Replacement Moleck 3273 - - 22,000 - 23,000 Replacement Verde 1000 - - 22,000 - 23,000 Replacement Verde 1000 - - 22,000 - 20,000 Replacement Verde 1000 - - 23,000 - 10,000 Replacement Verde 1000 - - 32,000 - 9,000 Replacement Verde 1000 - - - 9,000 - 9,000 Replacement Verde 1000 - - - 9,000 - 9,000 - 9,000 - 9,000 - 9,000 - 9,000 - 9,000 - 9,000			-	-	-		-	
Replacement Filture Mundi Monter & Max. - - - 30,000 - 30,000 Replacement Sour Pung Ginder Multi Monter & Max. - - - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 20,000 - 30,000 -	-		-	-	-		-	
Replacement Sum Pang Grinder Mulfin Monster & Mac. - - 20,000 - 22,000 Replacement Suide Pang - - 22,000 - 22,000 Replacement Suide Pang - - 22,000 - 22,000 Replacement Charla Screening Equipment - - 22,000 - 22,000 Replacement Vehice Tools - 20,000 - 22,000 - 22,000 Replacement Vehice Tools - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 - 10,000 10,000 Replacement Vehice Tools - 20,000 70,000 Replacement Vehice Tools - 20,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,00			-	-			-	
Replacement Vehicle 1938 - - 2,000 22,000 Replacement Grit And Screening Equipment - - 22,000 - 22,000 Replacement Grit And Screening Equipment - - 22,000 - 22,000 Replacement Vehicle 1006 - - 10,000 - 10,000 Replacement Vehicle 1006 - - 10,000 - 10,000 Replacement Vehicle 1006 - - 10,000 - 10,000 Replacement Vehicle 10063 - - 9,000 - 9,000 Replacement Vehicle 10063 - - 0,000 - 9,000 Replacement Vehicle 10063 - - 0,000 - 9,000 Replacement Vehicle 10063 - - 0,000 - 9,000 Replacement Vehicle 1005A - - 10,000 10,000 10,000 10,000	•		-	-	-		-	
Replacement Sudge Tump I			-	-	-		-	
Replacement Grif And Screening Equipment - - 25,000 - 22,000 Rehabilitation Grif Cassifier Tank - - 22,000 - 22,000 Rehabilitation Grif Cassifier Tank - - 19,000 - 20,000 Replacement Vehicle E0061 - - 19,000 - 30,000 Replacement Vehicle E0062 - - 19,000 - 30,000 Replacement Vehicle E0063 - - 9,000 - 9,000 Replacement Vehicle E0065 - - 9,000 - 9,000 Replacement Vehicle E0065 - - 2,000 - 0,000 Replacement Vehicle E0065 - - 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000	•		-	-			-	
Replacement Devatering Pump - - 22.000 - 22.000 Replacement Vehicle E005 - - 20.000 - 20.000 Replacement Vehicle E005 - - 19.000 - 19.000 Replacement Vehicle E005 - - 18.000 - 19.000 Replacement Vehicle E005 - - 18.000 - 12.000 - 12.000 Replacement Vehicle E005 - - 9.000 - 9.000 - 9.000 Replacement Vehicle E005 - - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 8.000 - 2.000 8.000 9.000 9.000 9.000 9.000 9.000	-		-	-			-	
Reinballintation Grit Classifier Tank - - 2,000 - 2,000 Replacement Vehicle E0051 - - 15,000 - 15,000 Replacement Vehicle E0052 - - 15,000 - 15,000 Replacement Vehicle E0053 - - 12,000 - 12,000 Replacement Vehicle E0054 - - 9,000 - 3,000 Replacement Vehicle E0054 - - 9,000 - 3,000 Replacement Vehicle E0054 - - 2,000 - 2,000 Replacement Vehicle E0056A - - 2,000 2,0000 2,0000 Replacement Vehicle E0056A - - 13,000 13,000 Replacement Vehicle E0057A - 13,000 13,000 14,000 Replacement Vehicle E0057A - 14,000 14,000 14,000 14,000 14,000 14,00	-		-	-	-		-	
Replacement Vehicle 2000 - 19,000 - 19,000 Replacement Vehicle 2003 - - 9,000 - 3,000 Replacement Vehicle 2003 - - 9,000 - 3,000 Replacement Vehicle 2003 - - 9,000 - 3,000 Replacement Vehicle 2005A - - 2,000 7,000 3,000 Replacement Vehicle 2005A - - 2,000 19,000 10,000	•		-	-	-		-	
Replacement Vehicle 2001 - 9,000 - 9,000 Replacement Vehicle 2003 - 18,000 - 18,000 Replacement Vehicle 2003 - 12,000 - 12,000 Replacement Vehicle 2004 - - 9,000 - 9,000 Replacement Vehicle 2005 - - 9,000 - 9,000 Replacement Vehicle 2005 - - 9,000 - 0,000 Replacement Vehicle 2005 - - 9,000 - 0,000 Replacement Vehicle 2005 - - 2,000 2,000 2,000 2,000 10,000			-	-	-		-	
Replacement Vehicle 2003 - 15,000 - 15,000 Replacement Vehicle V05A - 12,000 - 12,000 Replacement Vehicle 7005A - 9,000 Replacement Vehicle 7005A - 9,000 Replacement Vehicle 7005A - - 9,000 - 9,000 Replacement Vehicle 7005A - - 3,000 35,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 12,000	-		-	-	-		-	
Replacement Vehicle 10039 - 18,000 - 18,000 Replacement Vehicle 10063 - - 3,000 - 3,000 Replacement Vehicle 1005 - - 3,000 - 8,000 Replacement Vehicle 1005 - - 3,000 - 8,000 Replacement Vehicle 1005 - - 2,000 1,000 <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td></t<>					-		-	
Replacement Vehicle 1006A - 12,000 - 12,000 Replacement Vehicle 1006A - - 9,000 - 9,000 Replacement Vehicle 1006A - - 3,000 - 9,000 Replacement Vehicle 1005A - - 3,500 35,000 35,000 25,000 82,000 25,000 82,000 25,000 82,000 25,000 25,000 35,00	-							
Replacement Vehicle 2003 - - 9,000 - 9,000 Replacement Vehicle 1005 - - 9,000 - 9,000 Replacement Collect/OT Tark - - - 35,000 - 8,000 Replacement Fushing Water Pump - - - 25,000 25,000 Replacement Fushing Water Pump - - - 25,000 25,000 Replacement Vehicle 10067A - - 19,000 19,000 Replacement Vehicle 10067A - - 11,000 11,000 Replacement Vehicle 10067A - - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Replacement Vehicle 20064 - - 9,000 - 9,000 Replacement Vehicle 4055 - - 8,000 - 8,000 Replacement Flushing Water Pump - - 25,000 25,000 Replacement Hyo Pump - - 25,000 25,000 Replacement Vehicle 5006A - - 25,000 25,000 Replacement Vehicle 5006A - - 19,000 19,000 Replacement Vehicle 5006A - - 11,000 10,000 Replacement Vehicle 5006A - - 11,000 10,000 Replacement Vehicle 5086A - - 11,000 10,000 Replacement Vehicle 5086A - - 10,000 10,000 Replacement Vehicle 5086A - - 10,000 10,000 Replacement Vehicle 5086 - - 10,000 10,000 Replacemen			-	-	-		-	
Replacement Vehicle 4005 - - 9,000 - 9,000 Replacement Collector Tank - - - 35,000 35,000 Replacement Hybp Pump - - - 25,000 25,000 Replacement Hybp Pump - - - 25,000 25,000 Replacement Vehicle 6005A - - 19,000 19,000 Replacement Vehicle 6005A - - 19,000 19,000 Replacement Vehicle 6005A - - 11,000 11,000 Replacement Vehicle 4005A - - 11,000 11,000 Replacement Vehicle 4038 - - 11,000 11,000 Replacement Vehicle 4038 - - 10,000 10,000 Replacement Vehicle 4038 - - 10,000 10,000 Replacement Vehicle 4038 - - 10,000 10,000			-	-	-		-	
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Image ment Vehicle V368 - - - 11,000	Replacement	Dewatering Pump	-	-	-	-	17,000	17,000
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Asset Type	Asset Title	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Cost
EMDA							
Replacement	Phillipsdale DCP, Sondes & Assoc. Equip.	65,000	-	-	-	-	65,000
Replacement	Fixed Site Probes, Handheld Meter, Solutions/Equipment	30,000	32,000	32,000	32,000	20,000	146,000
Replacement	Fixed Site Sondes & Equipment	50,000	50,000	50,000	52,000	26,000	228,000
Replacement	Vehicle V432	34,000	-	-	-	-	34,000
Replacement	Refrigerated Autosamplers	19,500	-	-	-	-	19,500
New	Swipe Card Readers	50,000	-	-	-	-	50,000
Replacement	Caribe Boat	15,000	-	-	-	-	15,000
Replacement	Vehicle V383	-	34,000	-	-	-	34,000
Replacement	Refrigerated Autosamplers	-	13,000	-	14,000	-	27,000
Replacement	Refrigerated Autosamplers	-	-	19,500	-	-	19,500
Replacement	Vehicle V369	-	-	-	34,000	-	34,000
Replacement	Vehicle V365	-	-	-	-	34,000	34,000
Replacement	Refrigerated Autosamplers	-	-	19,500	-	20,500	40,000
	Subtotal EMDA	263,500	129,000	121,000	132,000	100,500	746,000

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Narragansett Bay Commission Acronyms Glossary

ACA – Affordable Care Act

Commonly referred to as **Obamacare**, is landmark health insurance legislation passed by the 111th United States Congress in March 2010.

AFL-CIO – American Federation of Labor-Congress of Industrial Organizations

AFSCME – American Federation of State, County & Municipal Employees

AMS - Asset Management System

The computer system that incorporates all the processes, tools, data and policies needed to effectively manage assets.

APRA – Access to Public Records Act

The Rhode Island state law that gives individuals the right to see and obtain records. The law provides guideline for obtaining access to these records and also defines which records are subject to public inspection and which are exempt.

BLS – Bureau of Labor Statistics

The Bureau of Labor Statistics is the principal fact-finding agency for the Federal Government in the broad field of labor economics and statistics.

BMP – Best Management Practices

The EPA defines a BMP as a "technique, measure or structural control that is used for a given set of conditions to manage the quantity and improve the quality of stormwater runoff in the most cost effective manner".

BNR - Biological Nutrient Removal

A biological process to remove nitrogen from wastewater, to prohibit excessive algal growth and low oxygen levels in receiving waters.

BOD - Biochemical Oxygen Demand

An indicator of the amount of oxygen being depleted from the receiving waters by sewage; the greater the BOD, the greater the degree of pollution.

BVI - Blackstone Valley Interceptor

CAC - Citizens' Advisory Committee

An advisory group to NBC, CAC represents users, the general public and environmental groups.

CAFR - Comprehensive Annual Financial Report

A report completed by NBC which conveys the annual financial position and results of operations of the NBC and complies with the accounting requirements promulgated by the GASB.

CBA - Collective Bargaining Agreement

Agreement reached between management and union representatives as to the terms of future union contracts.

CDL - Commercial Driver's License

A license that meets certain "standards" uniform to all states, as required by federal law, and is mandatory for the operation of particular commercial vehicles.

CIP - Capital Improvement Program

A plan for major capital expenditures to be incurred each year over a fixed period of five years to meet capital needs arising from the long-term work program. It sets forth each project and specifies the full resources estimated to be available to finance the projected expenditures.

CMOM - Capacity Management Operation and Maintenance Program

A dynamic and adaptable system management approach that utilizes feedback regarding system performance, variable conditions and operating & maintenance practices to direct and adjust responses, routine activities procedures, and capital investments.

CRMC - The Coastal Resources Management Council

A management agency with regulatory functions responsible for the preservation, protection, development and where possible the restoration of the coastal areas of the state via the implementation of its integrated and comprehensive coastal management plans and the issuance of permits for work with the coastal zone of the state.

COB - The NBC's Corporate Office Building.

COLA - Cost of Living Adjustment

An annual adjustment made to salary of union employees of NBC to maintain the level of wages against inflation.

CPI - Consumer Price Index

Measures changes in the price level of a market basket of consumer goods and services purchased by households.

CSO - Combined Sewer Overflows

Areas along Rhode Island rivers where combined sewers overflow during significant rain events.

DMR – Discharge Monitoring Report

Reports required to be submitted to the RIDEM every month; these reports summarize the findings of daily samplings conducted at each wastewater treatment facility.

DOH – Rhode Island Department of Health

DT/day – Dry Tons per Day

EAP – Employee Assistance Program

An arrangement between a corporation, academic institution or government agency and its employees that provides a variety of support programs for the employees.

EEF – Environmental Enforcement Fund

Includes funds recovered through administrative or civil enforcement action that are not available for normal operating expense per Chapter 46-25 of RI General Laws.

EEO – Equal Employment Opportunity

In compliance with Federal and State legislation, NBC promotes fair and equitable treatment to all employees regardless of race, color, sex, age, national origin, handicap/disability status, veteran status, sexual orientation or gender identity or expression.

ELUR – ENVIRONMENTAL LAND USE RESTRICTION

A declaration consistent with the regulations adopted by the Rhode Island Department of Environmental Management pursuant to R.I.G.L. § 23-19.14-1 which manages environmental risks associated with property containing soil and/or groundwater which is contaminated with certain hazardous materials and/or petroleum in excess of applicable criteria pursuant to the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.

EMPACT – Environmental Monitoring for Public Access and Community Tracking

Evaluates the quality of the receiving water at certain buoy and fixed station sites and provides the means to measure the water quality improvements resulting from NBC's nutrient removal and CSO facilities.

EPA - Environmental Protection Agency

An agency of the federal government designated to oversee environmental protection in the United States.

EPCRA – Emergency Planning and Community Right-to-Know Act

An Act passed by Congress in 1984 in response to concerns regarding the environmental and safety hazards posed by the storage and handling of toxic chemicals. As a result, Congress imposed reporting on hazardous and toxic chemicals and emergency planning requirements for federal, state and local governments, tribes and industries.

ERP – Environmental Results Program

An innovative environmental management approach that uses compliance assistance, selfaudits/certifications, and statistically based inspections and performance measurements to help educate owners and operators of regulated facilities to more effectively meet or exceed regulatory compliance obligations, while enabling regulators to obtain long-term verifiable results at less cost and effort.

FSA – Flexible Spending Account

Also known as a flexible spending arrangement is one of a number of tax-advantaged financial accounts that can be set up through a cafeteria plan of an employer in the United States.

FSP – Fiscal Sustainability Plan

The ability of a government to sustain its current spending, tax and other policies in the long run without threatening government solvency or defaulting on some of its liabilities or promised expenditures.

FTEs - Full-time Equivalents

The amount of hours worked being equal to a full-time employee.

FY - Fiscal Year

The twelve-month financial period used by the NBC, that runs from July 1st through June 30th of the following calendar year. The year is represented by the end date.

GAAP - Generally Accepted Accounting Principles

The concepts, principles, and procedures developed to serve as the norm for the fair presentation of financial statements.

GASB – Governmental Accounting Standards Board

A private not-for-profit organization that seeks to establish and improve standards of accounting and financial reporting for U.S. state and local governments.

GFOA - Government Finance Officers Association

GFOA is the professional association of state/provincial and local finance officers in the United States and Canada, and has served the public finance profession since 1906. Over 15,500 GFOA members are dedicated to the sound management of government financial resources.

GIS - Geographic Information Systems

A mapping technology that allows the user to create and interact with a variety of maps and data sources.

GPS - Global Positioning Satellite System

This system uses information obtained by satellites to indicate the coordinates of a specific location.

HCF - Hundred Cubic Feet

Unit of liquid measure, used to bill NBC's consumption fees.

HDHP – High Deductible Health Plan

A health insurance plan with lower premiums and higher deductibles than a traditional health plan.

HR – Human Resources

A section within the NBC that is responsible for the administration and processing of employee records, employee recruitment and retention, workers' compensation and equal employment opportunity for union and non-union personnel.

HRA – Health Reimbursement Arrangement

Employer-funded plans that reimburse employees for any incurred medical expense that is not covered by the company's standard insurance plan.

HSA – Health Savings Account

A tax-advantaged medical savings account available to taxpayers in the United States who are enrolled in a high-deductible health plan (HDHP).

HVAC – Heating, Ventilating and Air Conditioning

The mechanical systems that provide temperature and air quality control in an office space and are generally interconnected.

IFAS – Integrated Fixed Film Activated Sludge

A process of adding media, usually plastic, to aeration tanks to increase surface area for bacterial growth.

kWh – Kilowatt hour

A unit of energy used to measure electricity usage and 1 kWh is equal to 1,000 watt hours and powers a 100 watt light bulb for 10 hours.

LED - Light-emitting Diode

A two-lead semiconductor light source, which emits light when activated. When a fitting voltage is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons.

LEED - Leadership in Energy and Environmental Design

A high performance green building's certification program created by the US Green Building Council which focuses primarily on new, commercial building projects and based upon a points system. The more points you earn, the higher your rating.

LID – Low Impact Design

An approach to land development (or re-development) that works with nature to manage stormwater as close to its source as possible.

LIMs – Laboratory Information Management System

A software-based laboratory and information management system with key features that support a modern laboratory's operations. The system allows a way of tracking samples to be tested from the point of acquisition through the process of entering the results into the database.

LIUNA – Laborers' International Union of North America

LOC – Letter of Credit

A guarantee of payment issued by a bank on behalf of a client that is used as "payment of last resort" should the client fail to fulfill a contractual commitment with a third party.

LRP – Long Range Planning

Mgd/MGD - Million Gallons per Day

Mg/L - Milligrams per Liter. 1 mg/L can also be expressed as 1 part per million

ml – Milliliter

A metric unit of volume that is equal to one thousandth of a liter.

MPN – Most Probable Number

Expressed as the number of organisms which are most likely to have produced the laboratory results noted in a particular test.

MRI – Moshassuck River Interceptor

MW – Megawatt

A megawatt is a unit of measure of electricity and one MW is equal to one million (10⁶) watts.

MWRA – Massachusetts Water Resource Authority

N/A - The information is Not Available or Not Applicable.

NACWA - National Association of Clean Water Agencies

An organization which represents the interests of over 300 public agencies and organizations involved with wastewater treatment.

NBEP – Narragansett Bay Estuary Program

As part of the National Estuary Program, created in 1987 under the Clean Water Act, NBEP serves to protect and preserve Narragansett Bay and its watershed through partnerships that conserve and restore natural resources, enhance water quality and promote community involvement.

NEWEA – New England Water Environment Association

An organization of over 2,100 Water and Wastewater Professionals, who volunteer their time, energy and expertise in order to preserve, protect and manage New England's water environment.

NWPCA – Narragansett Water Pollution Control Association

Established in 1952, the NWPCA is a non-profit organization created to promote the advancement of knowledge concerning the nature, collection, treatment, and disposal of domestic and industrial wastewaters.

O & M - Operations and Maintenance

Expense related to performing the functions required to safely and effectively operate and maintain NBC's wastewater treatment and collection services.

OSHA – Occupational Safety and Health Act of 1970

OSHA's role is to set and enforce standards that assist employers with their responsibility to promote workplace safety and the health of their employees.

PUC - Public Utilities Commission

In accordance with RIGL, this state agency regulates certain public utilities in the State of Rhode Island, including the NBC.

QDRO – Qualified Domestic Relations Order

A QDRO is a judgment, decree or order for a retirement plan to pay child support, alimony or marital property rights to a spouse, former spouse, child or other dependent of a participant.

RAS – Return Activated Sludge

The settled activated sludge (which contains bacteria that feeds on the organic content in sewage) collected in the secondary clarifiers then returned to the aeration basins to re-seed the process for the incoming wastewater.

REC – Renewable Energy Credits

Tradable, non-tangible energy commodities in the United States that represent proof that 1 megawatt-hour (MWh) of electricity was generated from an eligible renewable energy resource (renewable electricity).

RIIB - Rhode Island Infrastructure Bank

Formerly known as the Rhode Island Clean Water Finance Agency, this state agency administers the State Revolving Fund which finances wastewater related projects and other programs.

RIDEM - Rhode Island Department of Environmental Management

The environmental regulatory department of the State and serves as a delegated authority of the USEPA with respect to the federal Clean Water Act and other programs.

RIGL – Rhode Island General Laws

RIPDES Permit - Rhode Island Pollution Discharge Elimination System

A permit issued by the RIDEM which sets discharge limitation requirements for wastewater utilities.

RIPEC - Rhode Island Public Expenditure Council

An independent, nonprofit and nonpartisan public policy research and education organization.

RIRRC - Rhode Island Resource Recovery Corporation

RIWARN – Rhode Island Water/Wastewater Agency Response Network

A mutual aid agreement between cities, towns or agencies to provide assistance in the event of an emergency.

ROMS – Regional Ocean Model System

A numerical hydrodynamic computer model in the public domain that is being applied to the Narragansett Bay by the URI-Graduate School of Oceanography. This model will predict circulation, thermal and pollutant transport for Narragansett Bay, including the Providence and Seekonk river systems.

S&P - Standard & Poor's

An American stock market index based on the market capitalizations of 500 large companies having common stock listed on the NYSE or NASDAQ.

SIUs - Significant Industrial Users

NBC's largest industrial customers.

SMART – SMART Goals

S.M.A.R.T. is a framework for goal setting. Follow the framework to ensure the best chance of success for achieving goals. (Specific. Measurable. Attainable. Results-oriented. Time-limited.)

SOP – Standard Operating Procedure

A written procedure that promotes uniformity in operations, SOP provides individuals with the information necessary to perform a task properly and facilitates consistency in the quality and integrity of end result.

SRF - State Revolving Fund

The Rhode Island Infrastructure Bank program which offers low cost financing to eligible qualified borrowers.

TMDL - Total Maximum Daily Load

A calculation of the maximum amount of a pollutant that a body of water can receive and still meet water quality standards as established by the Clean Water Act, Section 303.

TSS - Total Suspended Solids

The ratio of solid matter in the effluent in parts per million.

URI – University of Rhode Island

USEPA – United States Environmental Protection Agency

The agency of the federal government designated to oversee environmental protection in the United States.

UV – Ultraviolet

Of or relating to a light bulb that emits ultraviolet radiation

VFD – Variable Frequency Drive

A device that adjusts the speed of a pump in response to the amount of flow entering the pump station.

VRDB – Variable Rate Demand Bonds

NBC's long-term revenue bond that is multi-modal and currently is in weekly mode and backed with a direct pay letter of credit.

VRDO – Variable Rate Demand Obligation

A variable rate demand obligation (VRDO) is a municipal security for which the interest rate resets on a periodic basis and holders are able to liquidate their security through a "put" or "tender" feature, at par.

WED – Wind Energy Development

Wind turbines that convert wind energy into electricity.

WQS Building – Water Quality Science Building

WWTF - Wastewater Treatment Facility

A facility used to treat wastewater, so that the release of effluent poses no adverse impact on public health or the ecology.

Narragansett Bay Commission Glossary of Terms

Abatement - A user charge credit for customers who can demonstrate that more than 15% of their measured water usage does not enter NBC's sewer system.

Abatement Fee – The fee charged as part of the Sewer User Fee Abatement Application.

Abbreviated Rate Filing – A simplified filing process with the Public Utilities Commission for a revenue increase available to non-investor owned utilities under certain circumstances.

Accounting System - A system of financial recordkeeping that records, classifies, and reports information on the financial status and operation of an organization.

Accrual Basis of Accounting- A method of accounting that recognizes the financial effect of transactions when they occur, regardless of the timing of related cash flows.

Adopted Budget - The operating budget approved by the NBC's Board of Commissioners.

Allocation - The distribution of available funds, personnel, buildings and equipment among various Commission divisions and/or cost centers.

Amortization - The allocation of the cost of an asset over its useful life.

Annual Budget - An estimate of expenses to be used for specific purposes during the fiscal year (July 1 - June 30) along with the proposed means (estimated revenues) for financing those activities.

Approved Budget - The budget that has been approved by the NBC's Board of Commissioners.

Arbitrage – The investment of tax-exempt bond proceeds in higher yielding taxable securities, resulting in a profit.

Asset Management Program – Computerized management program used to ensure the proper maintenance, repair and replacement of NBC's assets.

Audit – An independent systematic examination of the financial records to obtain reasonable assurance about whether the financial statements are free of material misstatement.

Balanced Budget - A budget in which revenue equal expense.

Baynet - NBC's internal webpage

Biosolids (also referred to as Sludge) - The solids (heavy organic waste matter) resulting from the wastewater treatment process. This material is separated from the effluent, treated and appropriately discarded.

Bioassay – A method for the quantification of the effects on a biological system by its exposure to a substance.

SUPPORTING SCHEDULES

Bisulfite - Chemical used to adjust the alkalinity of wastewater.

Board of Commissioners (Board) – NBC's 19 member governing board comprised of nine representatives of the municipalities in the service area and ten gubernatorial appointments.

Bond - A certificate of debt containing a promise to pay a specified sum of money (face value or principal) on specified date/dates in the future (maturity date) together with periodic interest at a specified rate.

Budget (Operating) – A financial operating plan of all expected revenue and expenses for a fiscal year.

Budget Message - A general discussion of the submitted budget presented in writing by the Executive Director as part of the budget document.

Capital Budget - A plan for the investment in long-term assets and the means of financing those acquisitions during the current fiscal period.

Capital Expenses - Expenses for contractor or other expenses related to the Capital Improvement Program (CIP) projects.

Capital Improvement Program (CIP) - A plan that identifies programmed investments necessary to comply with current and future regulatory requirements, take advantage of technological advancements, and ensure the integrity of NBC's infrastructure. Capital needs are identified by project and fiscal year over a five-year period.

Capital Reimbursements - Labor and other expenses related to capital improvement projects paid from NBC's Operating Fund and later reimbursed from the Project Fund.

Carbon Feed - A substance added to the treatment process to reduce total nitrogen.

Cash Basis - Basis of accounting that recognizes transactions or events when related cash amounts are received or disbursed.

Catch Basin - A structure designed to collect and retain solid runoff matter from streets to allow unobstructed flow of surface water into a storm sewer.

Clarifiers - The components of the wastewater treatment plant that separates sludge and scum from wastewater flows, also called sedimentation tanks.

Clean Room - A controlled laboratory testing environment that has a low level of pollutants such as dust, airborne microbes, aerosol particles, and chemical vapors.

Collection System - System of NBC owned wastewater collection and conveyance facilities that ties into NBC's wastewater treatment system including interceptors, pipes, tide gates, pumping stations, manholes, regulators, and catch basins.

Combined Sewage - A mixture of stormwater and wastewater.

Combined Sewers - Sewer systems in which stormwater and sanitary waste from industrial, commercial or residential sources are combined.

SUPPORTING SCHEDULES

Consent Agreement - An agreement between the Rhode Island Department of Environmental Management and the NBC which identifies specific compliance issues and stipulates corrective measures to resolve such issues.

Consumption Revenue – Revenue derived from sewer user fees based upon water usage.

Debt Service – Principal and interest payments on outstanding bonds.

Debt Service Coverage – Requirement of NBC's Trust Indenture that provides that net annual revenue available to pay debt service must exceed annual debt service by 25%.

Debt Service Coverage Ratio – A ratio that expresses the relationship or net revenue to debt service.

Deionized Water Purification System - Removes any impurities in the water, forming pure water (H₂O).

Depreciation – Allocation of the expense of an asset over its useful life in a systematic or rational manner.

Digester - A component of the wastewater treatment facility where organic matter is broken down as part of the treatment process.

Discharge Permit - A permit issued by NBC's Pretreatment Program to regulate the users discharging into NBC's collection system. The permits ensure compliance with all EPA and State mandates and the protection of the treatment facilities and receiving waters.

Dissolved Oxygen - The level of oxygen dissolved in the water which is an important indicator of the health of the ecosystem.

Diversion Chamber - A chamber or box, which contains a device for diverting or drawing off all or part of a flow or for discharging portions of the total flow to various outlets.

Effluent - The "cleaned" wastewater, or final liquid by-product of the wastewater treatment process, that flows out of a treatment facility.

Enterprise Fund - A fund established to account for operations that are financed and operated in a manner similar to private business enterprises. The intent is that the full expense of providing the goods or services be financed primarily through user charges and fees.

Expenses – Payments for goods and services received.

Facilities Plan - An improvement plan that integrates new facilities, major rehabilitation, ongoing repairs, or the renewal of existing facilities.

Financing Plan - The estimate of revenues and their sources that will pay for the service programs outlined in the annual budget.

Flat Fee Revenue – Revenue derived from sewer user charges based on the number of dwelling units for residential customers and the meter size for non-residential customers.

Flow Meter - A meter used to measure the flow of water.

Force Main - A sewer line fed by a lift station which carries pumped wastewater to a point where additional pumps or gravity can continue to convey the flow.

Fringe Benefit - A component of personnel other than salaries that include health insurance, retirement, payroll taxes and other employee benefits.

Fund Accounting - Governmental accounting systems are organized and operated on a fund basis. A fund is defined as a fiscal and accounting entity with a self-balancing set of accounts recording cash and other financial resources, together with all related liabilities and residual equities or balances, and changes therein, which are segregated for the purpose of carrying on specific activities or attaining certain objectives in accordance with special regulations, restrictions, or limitations.

GASB 67 - Government Auditing Standards Board Statement 67 – Financial Reporting for Pension Plans which replaces the requirements of Statement 25 as they relate to pension plans that are administered through trusts or similar arrangements meeting certain criteria.

GASB 68 - Government Auditing Standards Board Statement 68 – Accounting and Financial Reporting for Pensions which replaces Statement 27 and requires governments providing defined benefit pensions to recognize their long-term obligation for pension benefits as a liability for the first time, and to more comprehensively and comparably measure the annual expense of pension benefits. The Statement also enhances accountability and transparency through revised and new note disclosures and required supplementary information.

Grant – Financial contributions received from the state and federal government.

Grit Chambers - Grit chambers are part of the wastewater treatment process where flows are slowed long enough for the grit, gravel and sand to fall to the bottom. This is one of the primary treatment steps to physically remove large particles before biological treatment begins.

Hypochlorite - A disinfectant, commonly known as bleach, used to treat effluent and control bacteria and odors.

Hypoxia – A condition in which there is inadequate dissolved oxygen in the water. This condition has a negative impact on the health of the ecosystem.

Infiltration - The seepage of groundwater into a sewer system which may occur through defective or cracked pipes, pipe joints and connections, interceptor access risers and covers, or manhole walls.

Inflow - Water discharged into a sewer system and service connections from sources other than regular connections. This includes flow from yard drains, foundation drains and around manhole covers. Inflow differs from infiltration in that it is a direct discharge into the sewer rather than a leak in the sewer itself.

Influent - Water that flows into the treatment plant.

Interceptor - A large sewer that receives flow from several smaller sewers and conveys flow to a sewage treatment plant.

Late Charge - Compounded interest of 1% per month assessed on unpaid sewer user fee balances 30 days after the billing date.

Line-Item Budget - A format of budgeting which organizes expenses by type, such as supplies, equipment, maintenance or salaries.

Mission Statement - Summation of NBC's purpose and goals.

Modified Accrual Basis - Basis of accounting that focuses on current financial resources. Revenues are recognized when they become measurable and available to finance expenditures of the fiscal period. Debt service expenditures and other accrued liabilities that are not normally liquidated with expendable available financial resources are not recognized until due. In addition, inventories and prepayments may be recognized when incurred rather than when used or during the period benefited by the prepayment.

Net Metering - A policy by which certain renewable energy electricity generators may deduct energy outflows from metered energy inflows.

Net Revenue - Total revenue less total operation and maintenance expense.

Nitrogen Removal - The removal of nitrogen from effluent of a wastewater treatment facility prior to discharge into receiving waters.

Nutrient - An organic or inorganic compound essential for the growth of organisms.

Operating Budget - See Budget (Operating)

Operating Capital Expenditure - An expense in excess of \$5000 for the acquisition or replacement of longterm assets that does not include repairs (unless extending the life of the asset by at least 3 years), land or CIP projects.

Operating Capital Plan - A detailed plan of proposed operating capital expenditures.

Operating Reserve for Revenue Stability Fund – Reserve Fund established at a level of \$4,500,000 to support Operations & Maintenance expenses in the event that actual revenue is less than the PUC authorized levels.

Outfall - A discrete location where quantities of water and/or wastewater are discharged into receiving waters generally through a pipe.

Overflow - Sewage flow that discharges directly from a sewer into receiving water because the total sewage flow exceeds the capacity of the sewer.

Performance Budget - A budget that bases expenses primarily upon measurable performance of activities and work programs. A performance budget may also incorporate other bases of expense classifications, such as character and object class, but these are secondary to activity performance.

Permit Fees - Charges for NBC permits to connect to NBC's sewer system.

Pipeline – NBC's monthly publication designed to keep Narragansett Bay Commission staff up to date on internal current affairs.

Planning - The management function of preparing a set of objectives for future action.

Policy - A definite course of action adopted after a review of information, and directed at the realization of goals.

Pretreatment - Reduction or elimination of pollutants from regulated wastewater dischargers prior to discharge into the sewer system.

Priority - A value that ranks goals and objectives in order of importance relative to one another.

Procedure - A method used in carrying out a policy or plan of action.

Program - Group activities, operations or organizational units directed to attaining specific purposes or objectives.

Program Measures - Variables measuring the degree of goal fulfillment achieved by programs.

Projected Expense - Estimate of what will be expensed, based on year-to-date performance.

Pump Station - An installation of pumps used to lift wastewater to a higher elevation in places where flat land would require excessively deep sewer trenches or to raise wastewater from areas too low to drain into available collection lines. These stations may be equipped with air operated ejectors or centrifugal pumps.

Purchase Order - A document issued to authorize a vendor or vendors to deliver specified merchandise or render a specified service for a stated or estimated price.

Rate Filing – An application filed with the Public Utilities Commission to request approval of adjustments to NBC's rates.

Ratepayer - NBC customer who pays a user fee for wastewater treatment and collection services.

Rating Agencies - This term refers to the major agencies which issue credit ratings on municipal bonds.

Receiving Water - A body of water such as a stream, river, or ocean which receives stormwater and/or wastewater.

Regulator Structures - An underground structure which regulates the amount of flow entering interceptors.

Restricted Accounts - Accounts that are restricted by the Public Utilities Commission for a specific purpose and are not available to directly fund operations and maintenance.

Revenue – An increase in financial resources and included as income to NBC and used to pay expenses.

Sampling - The act of taking water samples in order to determine water quality.

Section – NBC's lowest hierarchical level of allocating monies.

Septage - Waste that is disposed into a septage tank, and ultimately transported to a wastewater treatment facility center for treatment.

Settling Tanks - A holding area in the wastewater treatment process where heavier particles sink to the bottom for removal and disposal.

Sewer User Fee - Charges assessed to NBC customers for wastewater treatment collection and treatment services.

Sludge - See Biosolids.

Soda Ash (Sodium Carbonate) - A chemical used in the wastewater treatment process to adjust the alkalinity levels, as part of the nitrogen removal process.

Sodium Hydroxide - A chemical used in the wastewater treatment process to adjust the alkalinity levels, as part of the nitrogen removal process.

Sodium Hypochlorite – A chemical compound used for water purification.

Sondes - A collection of instruments that are used to profile and monitor water conditions in wastewater effluents and receiving waters.

Special Master – A PUC restricted cash account originally designated to be used to fund the hiring of a "Special Master" or overseer of the CSO Phase I Facilities by the PUC. NBC was not required to hire the overseer and the project has long been completed.

Stormwater Runoff - The portion of rainfall, melted snow or other precipitation that flows across the ground surface to a drain, sewer, lake, or river.

Strategic Plan - A plan created to outline the long-term goals and objectives of NBC.

Therm - A unit of measurement for natural gas used to monitor usage and determine usage related charges.

Tide-gate - A gate which opens and closes with tidal height to prohibit river water from entering the sewer system.

Tertiary treatment - The final cleaning process that improves wastewater quality before it is reused, recycled or discharged to the environment. The treatment removes remaining inorganic compounds, and substances, such as the nitrogen and phosphorus.

Trust Indenture - A contract between an issuer and a bond trustee for the benefit of bondholders.

Ultraviolet Disinfection - A wastewater disinfection method in which final effluent is exposed to ultraviolet light to kill pathogens and microorganisms.

Wastewater - The liquid-borne waste products of domestic, commercial and industrial activities.

Wet Weather Flow - The untreated discharges from wastewater treatment plants that occur during storm events.

Wetland - Any area in which the water table stands near, at, or above the land surface for at least part of the year. Such areas are characterized by plants that are adapted to wet soil conditions.

SUPPORTING SCHEDULES



FY 2018 Operating Budget Detail

GEN. ADM.	CC 80		56,000	- 000	000,00		1	8,109	30,000	205,000	'	14,000	1	' .	44,500	5,000	412,609		412,609		25,000	300	11,000	3,000	2,575	6,000	'	296,934	'	1	ľ	1	79,500	'	'	'	40,000	5,000	10,000	62,000	'	'	661,149	460,000	4,000	25,000	1	65,144
			\$ '		707			543		148		191	2,552	419								700	100	700	100		,	,	,	,	100	,		,	,			,		100	,			,		400		
PURCH.	CC 36		Ŷ		204,402			15,643		20,448		-	2				263,035		263,035																													
FINANCE CUST. SVC.	CC 34		\$ 655,996	5,000			172,789	97,589	'	61,468	39,163	348,688	30,159	4,485			2,030,018		2,030,018		382 068	500	200	128,000	'	'		'	'		'	'		'	'	7,000	'	'	'	5,375	'			'		8,000		
ADMINISTRATION & FINANCE CCT. IT CUST. SV	CC 33				ntn'c /c			74,635		97,562	'	174,003	17,863	2,577	•	•	1,342,256		1,342,256			1	500		2,500	'		'	'		500	30,000	'	'	'	'	315	'	413,025	'	22,000	'	1	'	•	60,000		1
ADMINIS ACCT.	CC 32		90,258 \$		100		23,774	45,633	•	50,625	5,388	136,494	12,133	1,822	•	•	872,374	(75,000)	756,124			1,000	100	60	'	•	•	'	'	•	100	,	•	•	•	•		,	•	75	•	•	•	•				•
FINANCE	CC 31		\$ '	-	C/C'//#			36,535		47,758		65,880	7,557	1,132	•		636,441		636,441			3,800	250	4,000	2,500	•		'			300	10,000	•	•		•		,	•	•		•	•	,				•
	CC 23		46,480 \$		000/007		12,243	21,381		23,301	2,775	72,101	5,051	752		r.	417,090		417,090	10,000	-	3,500	400	50			,		3,000	,	100						100			100								•
5NI DNI			\$ '		14,0		•	36,754	•	48,045	•	95,803	8,071	1,186	•	•	670,306	(200,472)				1,000	300	100	•	•	•	•	'		300	5,000	•	'	•	2,000	1,000	1	19,125	200	•	•	1	1	•	2,400	1	
& ENGINEERING ENGINEERING	25		Ŷ	04	5			e		4		6					67	(20	35																				П									
CONSTRUCTION & ENGINEERING CONSTRUCTION ENGINEERING	CC 22		•	000 F84	40C'00C	5.000		70,807	T	92,058		187,704	13,854	2,027	•		1,292,034	(720,467) (396 257)	175,310	175	-	400	200	100	2,000	•			600	•	100	1,500	1	•	•	6,500	1			•	•	1	1			4,000		
FFAIRS LEGAL	24		ۍ ۱		201,102		1	25,410	1	33,216	'	55,900	6,561	969	•	•	454,218	(5,500)	445,693			7,000	200	100	1,500	1	1	'	'	1	350	10,800	1	'	'	1	1	'	•	75	'	1	'	'	•	ı.	,	•
TIVE A VE	CC 21		, S	- 010	010/000	1.000	1	65,169	i.	85,088	ı	144,201	10,102	1,504			1,157,940	(39,162) (21 539)	1,097,238	,		30,000	600	8,500	2,500	8,800	ı	5,000		35,000	500	35,000	i.	,	,	3,000	250	ı	i.	100	,	i.	1	ı		1,500		
δ	FY 2017		(78,026) \$	42,000 155 628	070'CCT	2.600	(20,553)	11,913	(10,000)	(81,084)	(4,658)	145,739	(13,349)	2,987	1,441	(5,000)	183,138	(93,093) (51 199)	38,845		(20.235)	(7,400)	(5,560)	(068,2)	75	(0,200)	(1,800)	(37,816)	•	000'6	150	18,400	(66,475)	(40,791)	59,210	(35,700)	(41,804)	(5,000)	165,909	24,904	175,092	(000'6)	48,016	37,965	(1,000)	(6,800)	(3,000)	(19,475)
	PROPOSED		6,549,604 \$	542,400 10 226 642	111 100	33.200	1,710,415	1,345,884	30,000	1,246,806	387,668	4,207,952	336,920	50,293	44,500	5,000	26,958,685	(1,093,103) (601-206)	25,264,376	14 300	407.068	57,700	44,050	154,810	18,175	35,800	32,000	305,134	3,600	35,000	5,550	116,100	208,700	4,517,020	195,210	188,900	793,865	15,000	1,207,100	143,627	410,089	15,500	661,149	460,000	4,000	181,020	20,000	346,180
	BUDGET		\$ 6,627,630 \$	500,400 10 171 015		30.600	1,730,968	1,333,971	40,000	1,327,890	392,326	4,062,213	350,269	47,306	43,059	10,000	26,775,547	(1,000,010) (550,006)	25,225,531	11 300	477 303	65,100	49,610	162,700	18,100	45,000	33,800	342,950	3,600	26,000	5,400	97,700	275,175	4,557,811	136,000	224,600	835,669	20,000	1,041,191	118,723	234,997	24,500	613,133	422,035	5,000	187,820	23,000	365,655
BUDGET	NUMBER ACCOUNT	EL	UNION - REGULAR			NON-UNION LIMITED	UNION PENSION	FICA	UNEMPLOYMENT	NON UNION PENSION	UNION RETIREMENT HEALTH	HEALTH INSURANCE	DENTAL INSURANCE	VISION INSURANCE	DISABILITY INSURANCE	WORK. COMP OLD CLAIMS	TOTAL PERSONNEL	SALARY REIMBURSEMENT EDINGE PEIMPLESEMENT			INEDICAL 3VC3. POSTAGE	DUES & SUBSCRIPTIONS	FREIGHT	PRINTING & BINDING	ADVERTISING	RENTAL- EQUIPMENT	RENTAL- CLOTHING	RENTAL-OUTSIDE PROPERTY	MISCELLANEOUS EXPENSE	PUBLIC OUTREACH ED.	LOCAL TRAVEL	LONG DISTANCE TRAVEL	BLDG. & GRND. MAINT.	BIOSOLIDS DISPOSAL	SCREENING & GRIT DISPOSAL	VEHICLE FUEL & MAINTENANCE	REPAIRS BLDG, STRUCT, EQUIP.	REPAIR-HIGHWAY & WALKS	MAINTENANCE CONTRACTS	MAINT. CONTRACTS - OFFICE EQUIP.	SERVICE AGREEMENTS	HIGHWAY & LANDSCAPE	INSURANCE	WORK. COMP. INSURANCE	CENTRAL PHONE SVCS.	TELEPHONE	FUEL OIL #2 - DIESEL	FUEL-GAS
ACCT.	NUMBER	PERSONNEL	52100	52150	22200	52400	52800	52810	52820	52920	52940	52950	52970	52980	52990	53690		59000	TODEC	CPERALIN 52610	01025	53240	53250	53310	53320	53330	53340	53350	53360	53370	53410	53420	53470	53480	53490	53510	53610	53620	53630	53635	53640	53650	53660	53680	53900	54000	54020	54060
		SUI	PPC	RTI	NG	SCI	HED	UL	ES																													N	BC	FY	201	18 E	BUE	DGI	ET			

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NUMBER ACCOUNT 54090 ELECTRICITY 54110 WATER 54200 CLOTHING 54333 CARBON FEI 54333 CARBON FEI									É	LINAINCE	ALC 1.	=	001.3VC		GEN. ADIVI.
54090 54110 54200 54332 54333	ACCUUNT	DUDGE	TRUT USER	FY 2017		24	CC 22	25	CC 23	CC 31	CC 32	CC 33	CC 34	CC 36	CC 80
54110 54200 54332 54333	ELECTRICITY	2,524,778	2,474,806	(49,972)	1	1		1	'	T	•	1	1	•	245,896
54200 54332 54333	WATER	70,155	67,500	(2,655)	1	'		1		1		1	1	1	5,500
54332 54333	CLOTHING	42,100	42,600	500	2,000	1	2,000	300	•	1	'	'	2,100	1	
54333	CHLORINE/HYPOCHLORITE	341,221	345,505	4,284	•	1		1	'	1	'		1	'	
	CARBON FEED	82,493	50,586	(31,907)		1		1	1	I	1	1	1		
54335	POLYMER	66,410	90,060	23,650	1	1		1	ı	I	1	I	I	I	1
54336	sodium hydroxide	47,664	54,717	7,053		1		1	'	1	'	1	1	'	
54337	SODIUM BISULFITE	245,487	245,692	205	1	1		1	1	1	'	1	1	1	
54338	SODA ASH	13,464	12,210	(1,254)	1	1		1	1	1	1	ı	1	1	
54339	UV DISINFECTION	150,000	175,000	25,000		1		1	1	1	'	1	1	1	
54340	LAB SUPPLIES	357,738	360,670	2,932	1	1		1	1	I	1	I	1	I	'
54370	SUPPLIES BUILDING & MAINT.	443,550	449,310	5,760	100	1	500	500	'	1	60	300	50	1	10,000
54410	EDUCATIONAL SUPP. & EXP.	93,050	83,950	(9,100)	7,500	2,400	500	1,500	1,750	5,000	2,500	12,000	1,500	100	10,000
54420	COMPUTER SUPPLIES	82,250	82,150	(100)	500	150	1,000	200		I	200	60,000	1	100	5,000
54430	OTHER OP. SUPPLIES & EXP.	21,950	11,950	(10,000)	500	'		1	'	I	'	1,500	1	'	3,000
54440	SAFETY EQUIPMENT	55,450	51,850	(3,600)	100	'	200	1	ı	ľ	1	1	1,000	1	1,000
54500	OFFICE EXPENSE	110,825	112,875	2,050	25,000	650	2,600	3,000	3,000	4,200	6,000	600	4,000	800	15,000
57913	LEASE INTEREST EXPENSE	15,000		(15,000)		•		•		-		-	-	-	
TOTA	TOTAL OPERATING SUPPLIES/EXPENSE	15,140,547	15,308,168	167,621	166,450	23,225	22,325	36,925	22,000	30,050	10,095	603,240	539,793	3,200	2,051,997
FLED		117 OED	157 050	10,000						000 000					
22600		000 / 144	000/104	(1 100)	2 500	• •									
52660		196,000	196,000	-	50.000	5 000		'	'	20.000	'	'	1 000	'	120.000
52670		295,000	293,000	(000 2)	50,000				38,000	20,000	35,000				150,000
52680	CIERICAL SERVICES	33,000	41,000	8.000	6.500	1.500		1	-	-	3.000	1	10.000	1	10.000
52690	OTHER SERVICES	000,22	205.000	(16.000)	500		,	3.500	19.000	,	-		25.500	,	80.000
т	TOTAL PROFESSIONAL SERVICES	1 237 150	1 236.050	(1 100)	109 500	6 500		3 500	57 000	480.000	38,000	'	46.400	'	365,000
-			000/001/T	(001(1)	0001001	000-10			000'10	000/001	000/00		Dot for		
TOT	TOTAL OPERATIONS & MAINTENANCE	41,603,228	41,808,594	205,366	1,373,188	475,418	197,635	400,000	496,090	1,146,491	804,219	1,945,496	2,616,211	266,235	2,829,606
DERATIN	OPERATING CAPITAL														
16510	AUTOMOTIVE EQUIP.	211,000	89,000	(122,000)	,	'	,	1	'	1	'	1	'	1	
16520	BLDG. & PLANT EQUIP.	359,000	386,000	27,000		1		1	'	1	'	1	1	1	23,000
16570	LABORATORY EQUIP.	35,000		(35,000)	1	'		I	1	I	1	1	1	1	
16580	OFFICE FURN&EQUIP.	425,000	280,000	(145,000)	,	1		1	50,000	100,000	75,000	'	5,000	1	50,000
16583	COMPUTER SOFTWARE	970,000	1,405,000	435,000	1	1		I	'	I	'	1,300,000	1	I	
16585	COMPUTER HARDWARE	000'06	130,000	40,000	•	1		•	'	1	'	40,000	1	'	
16590	OTHER EQUIPMENT	81,000		(81,000)	1	1		1	'	1	'	1	1	1	
16600	REPLACEMENT RESERVE	2,913,500	2,670,678	(242,822)	40,000	1	30,000	30,000	'	1	'	580,000	25,000	'	17,000
16610	BUILDING & OTHER STRUCT.	145,000	100,000	(45,000)	•	'		1	1	1	1	1	1	1	100,000
16620	CAPITAL PROJECT STUDIES	250,000	250,000	1	1	1		1	'	250,000	'	1	1	1	
	TOTAL OPERATING CAPITAL	5,479,500	5,310,678	(168,822)	40,000	1	30,000	30,000	50,000	350,000	75,000	1,920,000	30,000	1	190,000
DEBT SERVICE	VICE														
	PROGRAMMED NEW DEBT	I	I	1	I	1	,	I	1	I	1	I	I	1	1
	PRINCIPAL	25,783,150	27,529,555	1,746,405	•	1		•	'	1	'	1	1	'	27,529,555
	INTEREST	19,354,472	19,257,339	(97,133)	-				-	1	-		-	-	19,257,339
	TOTAL DEBT SERVICE	45,137,622	46,786,894	1,649,272	1	1		1	1		1	1	1	•	46,786,894
	TOTAL	\$ 92,220,350	\$ 93,906,166	\$ 1.685,816	\$ 1,413,188 \$	\$ 475,418	\$ 227.635 \$	430,000	\$ 546,090	\$ 1,496,491	\$ 879.219	\$ 3.865.496	\$ 2,646,211	\$ 266.235 \$	49,806,500
					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							N.			
					EXECUTIVE AFFAIRS		CONSTRUCTION AND ENGINEERING	ENGINEERING			ADMIN	<b>ADMINISTRATION &amp; FINANCE</b>	FINANCE		

Detail
Budget
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							<b>OPERATIONS &amp; MAINTENANCE</b>	NTENANCE		ENVIRON	ENVIRONMENTAL SCIENCE & COMPLIANCE	ENCE & COMP	LIANCE	
2	ACCT.	ACCT. BUDGET NUMBER ACCOUNT	FY 2017 BUDGET	FY 2018 PROPOSED	CHANGE FROM FY 2017	CC 43	OPER. MAINT. SERV. CC 44	FIELDS PT. CC 46	BUCK. PT. CC 47	WATER QUAL. COMPL. CC 51	PT CC 52	LAB CC 53	ESTA CC 54	EMDA CC 55
	PERSONNEL	NEL												
PPC	52100		\$ 6,627,630		\$ (78,026)	\$ 511,707	÷	\$    2,172,146	\$ 2,012,945	÷ ۔		\$ 466,142	\$ ' \$	ч
ORTI	52150		500,400 10,171,015	542,400	42,000	35,000	- 607 135	200,000 705 546	225,000	- 00 800	400 610 080	40,000	-	37,000 F04 377
NG	52500		107 900	141 400	33 500	10 000	-	046,667	50,000	200,000	600'6TO	4000	1 000	3 500
SCH	52400		30,600	33,200	2,600	3,600	5,000	-	-	5,000	2,000	6,000	-	5,600
HED	52800		1,730,968	1,710,415	(20,553)	134,784		572,143	530,210		34,052	122,782		107,638
UL	52810	FICA	1,333,971	1,345,884	11,913	80,138	46,446	246,153	215,079	26,330	57,480	82,758	20,462	73,373
ES	52820	UNEMPLOYMENT	40,000	30,000	(10,000)			T						1
	52920	NON UNION PENSION	1,327,890	1,246,806	(81,084)	49,724	60,214	84,555	57,355	33,918	61,969	56,967	26,747	50,788
	52940	UNION RETIREMENT HEALTH	392,326	387,668	(4,658)	30,549	•	129,677	120,173	•	7,718	27,829	•	24,396
	52950		4,062,213	4,207,952	145,739	294,502	135,706	845,052	715,953	59,395	214,589	309,602	72,101	246,787
	52970	DENTAL INSURANCE	350,269	336,920	(13,349)	24,534	10,570	68,644	52,922	4,062	14,795	21,714	5,051	20,725
	52980		47,306	50,293	2,987	3,546	1,519	10,217	8,175	636	2,241	3,225	752	3,109
	52990		43,059	44,500	1,441	1		•	1		•	•	'	1
	53690	WORK. COMP OLD CLAIMS	10,000	5,000	(5,000)	1		1	1		•			1
		TOTAL PERSONNEL	26,775,547	26,958,685	183,138	1,665,328	861,590	5,174,133	4,511,363	468,524	1,144,213	1,706,684	392,586	1,485,943
	59000		(1,000,010)	(1,093,103)	(83,093)	(20,000)	(31,002)	1			1	•	(1,500)	'
	59001		(550,006)	(601,206)	(51,199)	(11,000)	(17,051)	T	1		1	1	(824)	•
		NET PERSONNEL SERVICES	25,225,531	25,264,376	38,845	1,634,328	813,537	5,174,133	4,511,363	468,524	1,144,213	1,706,684	390,262	1,485,943
0	PERATIN	OPERATING SUPPLIES/EXPENSE												
	52610	MEDICAL SVCS.	14,390	14,390	,	1		1	1	•	'	1	4,265	1
	53210	POSTAGE	427,303	407,068	(20,235)	1		1	1		1	1	•	'
	53240	DUES & SUBSCRIPTIONS	65,100	57,700	(7,400)	1,000	500	3,500	1,000	650	450	600	1,500	300
	53250	FREIGHT	49,610	44,050	(5,560)	2,000	•	10,000	8,000	200	400	7,000	100	2,500
	53310	PRINTING & BINDING	162,700	154,810	(2,890)	1	150	500	1,000	100	4,450	1	1,000	3,000
	53320		18,100	18,175	75	500	•	2,000	1,000		1,000			1
	53330	RENTAL- EQUIPMENT	45,000	35,800	(0,200)	1,500		6,000	13,500		'	'		ı
	53340	RENTAL- CLOTHING	33,800	32,000	(1,800)	2,000	•	15,000	15,000	•	'	'	•	'
	53350		342,950	305,134	(37,816)	'	•	1	'	200	'	'	2,500	'
	53360		3,600	3,600			•	1			1			'
	53370	PUBLIC OUTREACH ED.	26,000	35,000	9,000	1		1	1		'	1	•	'
	53410		5,400	5,550	150	400	250	200	250	200	50	400	750	400
	53420	LONG DISTANCE TRAVEL	97,700	116,100	18,400	4,000		4,000	1,000	3,000	2,000	4,500	2,500	2,800
	53470	BLDG. & GRND. MAINT.	275,175	208,700	(66,475)	7,500		46,000	34,000		200	41,500		
	53480		4,557,811	4,517,020	(40,791)	1		3,552,222	964,798	•	ı	ı	·	I
	53490	SCREENING & GRIT DISPOSAL	136,000	195,210	59,210	40,000		99,055	56,155		'	'		I
	53510		224,600	188,900	(35,700)	65,000	1,800	45,000	30,000		8,000	•	1,600	19,000
	53610		835,669	793,865	(41,804)	30,000		472,000	210,000		200	20,000		20,000
N	53620		20,000	15,000	(5,000)	10,000		1	1		'	1		'
BC	53630		1,041,191	1,207,100	165,909	37,800	266,543	289,557	37,297		'	130,553	•	3,200
FY	53635	MAINT. CONTRACTS - OFFICE EQUIP.	118,723	143,627	24,904	6,050		39,563	20,495		1,000	7,094	1	1,400
20	53640		234,997	410,089	175,092	15,400	19,980	116,520	236,189		'	1	•	I
18	53650	HIGH WAY & LANDSCAPE	24,500	15,500	(000'6)	6,000	•	3,500	6,000		'	'	•	'
BU	53660	INSURANCE	613,133	661,149	48,016	1	•	1	1		'	1	1	'
DGI	53680		422,035	460,000	37,965	1		1	1		'	1		'
FT	53900	CENTRAL PHONE SVCS.	5,000	4,000	(1,000)	1	•	1	1		'	1		1
	54000		187,820	181,020	(6,800)	35,000	1,300	18,000	7,500	700	7,220	1,300	800	7,900
	54020		23,000	20,000	(3,000)			15,000	5,000		ı			'
_	54060	FUEL-GAS	365,655	346,180	(19,475)	19,747		156,448	104,842		•		•	•

NBC FY 2018 BUDGET

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ACCT.		EV 2017	EV 2010	UNNEE EDOM									
NUMBE	ACCI. BUDGEI NUMBER ACCOUNT	BUDGET	۵	FY 2017	IM OPE CC 43	OPER. MAINT. SERV. CC 44	FIELDS PT. CC 46	BUCK. PT. CC 47	WATER QUAL. COMPL. CC 51	PT CC 52	LAB CC 53	ESIA CC 54	CC 55
54090	I ELECTRICITY	2,524,778	2,474,806	(49,972)	163,063	•	1,265,670	800,177	•			•	ľ
54110	WATER	70,155	67,500	(2,655)	3,000	•	21,000	22,000		1	16,000	•	
54200	CLOTHING	42,100	42,600	500	6,000	ı	8,000	10,000	300	1,500	3,900	500	6,000
54332		341,221	345,505	4,284			325,251	20,254		'	'	'	
54333		82,493	50,586	(31,907)		•	46,437	4,149	•				
54335		66,41U	90,060	23,650		1	'	90,060	•	I	I	ı	
54336		47,664	54,717	7,053		•	54,717	·	•	1	'	'	
54337		245,487	245,692	205		•	219,924	25,767	•	1		•	
54338		13,464	12,210	(1,254)	,	1	I	12,210	•	I	I	'	
54339		150,000	175,000	25,000		•		175,000	•				
54340		357,738	360,670	2,932	,	1	24,000	15,000		2,550	250,120	500	68,500
54370	I SUPPLIES BUILDING & MAINT.	443,550	449,310	5,760	76,000	250	190,000	160,000	100	500	550	7,400	3,000
54410		93,050	83,950	(9,100)	6,500	1,000	4,500	4,000	1,800	2,500	6,900	8,500	3,500
54420	COMPUTER SUPPLIES	82,250	82,150	(100)	1,000	1	6,000	5,000	50	1,200	500	850	400
54430	OTHER OP. SUPPLIES & EXP.	21,950	11,950	(10,000)	2,000	•	1,000	1,500	2,200	50	1	1	200
54440	I SAFETY EQUIPMENT	55,450	51,850	(3,600)	5,500	•	15,000	13,000	100	1,000	2,450	5,500	7,000
54500	OFFICE EXPENSE	110,825	112,875	2,050	5,000	500	15,000	9,000	3,225	4,000	3,350	3,550	4,400
57913		15,000	1	(15,000)	,		1			1	1		
ō	TOTAL OPERATING SUPPLIES/EXPENSE	15,140,547	15,308,168	167,621	551,960	292,273	7,090,565	3,120,143	13,625	38,270	496,717	41,815	153,500
001100								'					
FLEEN		117 OED	167 060	10,000	000		000 0	- 000 0					
12000			000 84	(1 100)	15,000		6 500	000'e					
52660		196,000	196,000	-	-		-	-		,	-	,	
52670		295,000	293,000	(000 2)									
52680		33,000	41 000	8 000	,		ı	ı	10.000	,	,	,	
100025		000,55	205,000	6,000 (16,000)	2005				-		40.000		36,000
	- 5	1 727 150	1 726 050	(11100)	15 000		14 600	12 000	000.01		11 050		000'00
	I U I AL PRUFESSIUNAL SERVICES	0CT//E7/T	UCU,052,1	(001,1)	008,ct	'	14,200	000/7T	TU,UUU	'	4T,85U		30,000
то.	TOTAL OPERATIONS & MAINTENANCE	41,603,228	41,808,594	205,366	2,202,088	1,105,810	12,279,198	7,643,506	492,149	1,182,483	2,245,251	432,077	1,675,443
DPERAT	OPERATING CAPITAL												
16510	AUTOMOTIVE EQUIP.	211,000	89,000	(122,000)	000'6		1	80,000		1	'	'	
16520	BLDG. & PLANT EQUIP.	359,000	386,000	27,000	,		178,000	135,000		1	1		50,000
16570	I LABORATORY EQUIP.	35,000	ı	(35,000)	ı	1	ı	I		I	I	ı	
16580	OFFICE FURN&EQUIP.	425,000	280,000	(145,000)		1	I	'		1	'	'	'
16583	COMPUTER SOFTWARE	970,000	1,405,000	435,000	,	105,000	T	1		I	1	1	
16585	COMPUTER HARDWARE	000'06	130,000	40,000		000'06	1	•			1	•	
16590	OTHER EQUIPMENT	81,000	,	(81,000)		•	•	•		'	'	•	
16600		2,913,500	2,670,678	(242,822)	235,000	•	575,400	625,000			299,778	•	213,500
16610	BUILDING & OTHER STRUCT.	145,000	100,000	(45,000)		•	•	•		1	1		
16620		250,000	250,000	•		•	1	1	•	1	1	1	
	TOTAL OPERATING CAPITAL	5,479,500	5,310,678	(168,822)	244,000	195,000	753,400	840,000	•	'	299,778		263,500
DEBT SERVICE	RVICE												
	PROGRAMMED NEW DEBT			•		•	1	'	•	1	1	'	
	PRINCIPAL	25,783,150	27,529,555	1,746,405		1	I	'		I	'	'	'
	INTEREST	19,354,472	19,257,339	(97,133)		•	1	1	•	1	1	1	
	TOTAL DEBT SERVICE	45,137,622	46,786,894	1,649,272	-	-			-			1	
	TOTAL	\$ 92,220,350	\$ 93,906,166 \$	- 1,685,816	\$ 2,446,088 \$	1,300,810	1,300,810 \$ 13,032,598 \$ 8,483,506	\$ 8,483,506	\$ 492,149	492,149 \$ 1,182,483 \$ 2,545,029 \$ 432,077	\$ 2,545,029		\$ 1,938,943
						\$25,263,002	2			\$6,59	\$6,590,681		

