STATE OF NEW YORK PUBLIC SERVICE COMMISSION CASE 16-W-0130

IN THE MATTER OF A PROCEEDING ON MOTION OF THE COMMISSION AS TO THE RATES, CHARGES, RULES AND REGULATIONS OF

SUEZ WATER NEW YORK INC.

FOR WATER SERVICE

CASE NO. 16-W-0130

EXHIBITS OF DANIEL P. DUTHIE On behalf of The Municipal Consortium

PO Box 8 Bellvale, NY 10912 845-988-0453 duthie@strategicpower.com EXHIBIT --- (DPD-1) DUTHIE CV

DANIEL P. DUTHIE, ESQ. P.O. Box 8 Bellvale, NY 10912 845-988-0453 Cell: 845-987-6453 Fax: 845-988-0455 duthie@attglobal.net

PROFESSIONAL EXPERIENCE

DANIEL P. DUTHIE, ESQ. (1990 to Present)

Currently representing the Municipal Consortium in the Suez Water New York Inc. rate case that seeks 18.7% increases for average residential single family customer. Half of the increase is to recover abandoned desalination project expenditures.

Currently representing Saber Dobbs Ferry, LLC in a water main extension negotiation with United Water New Rochelle, leading to the filing of a Joint Petition seeking a waiver of PSC regulations that will save ratepayers almost \$500,000.

Currently representing The Gateway Development Group negotiating electric service from Con Edison for a public-private development in Bronxville. Also representing Gateway in a network electric service dispute with Eversource in Greenwich Connecticut.

Currently representing the Town of Milan, the Town of Pleasant Valley and Farmers and Families for Livingston in the Competitive Alternating Transmission Proceeding before the New York PSC. This is an unprecedented Article VII (of the Public Service Law) proceeding that sees four applicants proposing AC Transmission line projects to alleviate the alleged Central – East constraint in the state's bulk power system. The proceeding was initiated as part of the Governor's Energy Highway proposal.

Recently completed working with a Municipal Consortium opposing the United Water New York 28.9% rate increase. The Municipal Consortium consists of all five towns in Rockland County, Rockland County itself, the Rockland County Solid Waste Management Authority, the Nyack Public Schools, and four villages and two school districts. Rate increase was less than half requested.

Recently represented Town of Ramapo against a proposed desalination facility that would have double United Water New York rates and working closely with citizen groups was able to have the project rejected by the Public Service Commission along with an associated \$60 million surcharge.

Recently completed working with a Municipal Consortium opposing the United Water New Rochelle 22% rate increase. The MC consists of the following City of New Rochelle, Village of Dobbs Ferry, Village of Hastings, Village of Pelham, Village of Pelham Manor, Village of Bronxville, Village of Ardsley, Town of Eastchester and Village of Tuckahoe. Again the rate increase was less than half of that requested. Currently working with the Towns of Clarkstown and Ramapo to acquire existing Orange and Rockland Utilities, Inc.'s overhead street lighting system under new SC-6 tariff (eff. July 1, 2012). Negotiations with O&R are completed for Clarkston and still underway for Ramapo to obtain a purchase price and other terms in the public interest pursuant to Section 70 of the New York Public Service Law.

Recently completed assignment from the Citizens for Local Power and the Municipal Consortium in Opposition to the Fortis acquisition of Central Hudson. Intervened after Joint Proposal had been filed. ALJs wrote a Recommended Decision against the acquisition. The Public Service Commission reversed the Recommended Decision and the acquisition was approved.

Recently completed representing East River Housing Corporation on a Petition for a Declaratory Order seeking a Public Service Commission determination that the Power Plant ERHC operates is not jurisdictional steam plant. Responsible for multi-year natural gas procurement via request for qualifications and request for proposals for Boiler Modernization Project, converting from No. 6 oil. Multi-million dollar project will pay back in less than two years due to gas/oil price differential and enhanced efficiency of new boiler and burner replacements in existing units. PSC Order issued granting ERHC a Certificate of Public Convenience and Necessity, along with a light-handed and incidental regulatory regime, retroactive to mid-1990, as a jurisdictional steam plant serving 2700 apartments in lower Manhattan.

Concluded negotiations on behalf of Wehran Energy Corporation in negotiations to obtain a long-term purchase power agreement with the Long Island Power Authority for output from the Brookhaven Landfill methane to electricity project.

Currently representing The Arker Companies and Progressive Management NY, Inc., in a petition to the PSC to modify a previously issued submetering order for Sea Park East, West and North (over 800 lower income apartments) that forbids the termination of electric service for non-payment.

Currently working with the St. Regis Mohawk Tribe to set up a regulatory commission that will oversee all telecommunication activities on the Akwesasne Reservation. Also assisting in the set-up of the wholesale broadband tribal business to be operated by Mohawk Networks. Starting to look at the economics of purchasing the electric system on the Reservation from Niagara Mohawk and set up a tribally owned and operated cooperative electric company

Represented the Municipal Consortium in Support of Reasonable Electric Rates in the recently completed Orange and Rockland Utilities, Inc., electric rate case before the Public Service Commission. The Municipal Consortium consists of the Towns of Clarkstown, Ramapo, Chester, Goshen, Highland Falls, Monroe, Tuxedo, Warwick, and Waywanda and the Villages of Chester, Florida, Monroe, Warwick and Haverstraw.

Represented the City of Buffalo, the City of Syracuse, Town of Amherst, the Town of Tonawanda and the Village of Kenmore in opposition to 2010 Niagara Mohawk Power

Corporation d/b/a National Grid rate increase pending before the New York Public Service Commission. Due to active intervention and development of expert testimony these five municipalities avoided \$1.5 million in increased street lighting costs.

Represented The Willows Home Owners Association, Inc. before the New York Public Service Commission in opposition to water rate increases by Aqua New York.

Represented Broome County before the PSC in opposition to NYSEG electric and gas rate increases decided in September 2010.

Represented the St. Regis Mohawk Tribe on various energy matters and successfully concluded franchise negotiations with Niagara Mohawk Power Corporation. Also represented SRMT in the National Grid – KeySpan merger proceeding before the NY PSC and in Federal Energy Regulatory Commission merger proceeding concluded in August 2007. Completed a Department of Interior funded project to determine the feasibility of exiting NMPC electric service. Working on exiting NMPC electric service and creating Mohawk Electric Cooperative – first electric cooperative in New York in 70 years.

Represented Wehran Energy Corporation in negotiations for a new Interconnection Agreement with the Long Island Power Authority and in opposition to a proposed change in the buy-back rates.

Represented Heritage Hills Society Ltd., a 2600 plus customer condo association in opposition to a proposed water rate increase pending before the NY PSC. Delayed increase by six months and cut it in half.

Represented the City of Utica and the Village of Sherburne in the New York Regional Interconnection Article VII proceeding (transmission line siting proceeding) before the NY PSC. Instrumental in creating delay by filing motion for additional information. NYRI withdrew its petition before the PSC and ended the ill-advised project.

Represented several investment funds in the acquisition of Energy East by Iberdrola before the NY PSC which concluded in September of 2008.

Providing legal advice and assistance to AalonBay Communities, Inc., Cappelli Enterprises and The Trump Organization on various electric, gas and water utility issues associated with large scale residential and commercial real estate developments, including the redevelopment of the Concord.

Various matters for Strategic Power Management, Inc. before FERC and the NY PSC, including an anti- competitive complaint against Orange and Rockland Utilities, Inc.

Qualified and testified as an expert witness on law and regulation before the New York State Public Service Commission (NY PSC) in obtaining on behalf of Northrop Grumman a Certificate of Public Convenience and Necessity to enable Northrop Grumman to operate, in competition with LILCO, a steam and electric system at Northrop's Bethpage site. This was the first new electric company in New York State in many decades.

Qualified as an expert witness developing and testifying on a \$5.3 million refund claim for street lighting service on behalf of the City of Albany against Niagara Mohawk Power Corporation. Retained by Albany's counsel Nixon Peabody. Hearings concluded in early 2005. Case settled on terms favorable to Albany.

LEBOEUF, LAMB, LEIBY & MACRAE¹ (Partner 1983 – 1990; Associate Partner 1976 – 1982)

Extensive experience in the development and prosecution of rate applications of water, sewer, gas, electric and telecommunications utilities before federal and state public service commissions. This experience includes "first chair" responsibility for all aspects of administrative hearings, motion practice, brief writing, appellate advocacy and settlement procedures in multi-party proceedings.

Extensive experience with rate design, cost allocation and economic theory of pricing utility services.

Extensive experience representing major electric and gas utilities in various generic regulatory proceedings, including long range forecasting, nuclear performance standards, fuel clauses, management audits, performance based regulation and, most recently, electric industry restructuring initiatives.

Experience representing cogenerators and independent power producers in negotiations with utilities, contract disputes and litigation.

Extensive experience with state and federal jurisdictional issues in the natural gas and electric power industry.

Assistant Secretary and Counsel to an electric utility sponsored research, development and demonstration corporation (not for profit).

Special Counsel to clients on various privatization issues.

Special counsel to 22 municipal water districts on Long Island to lower electric power costs.

Co- or lead counsel in three condemnation proceedings representing the condemnees (three private water utilities companies).

Federal and state litigation experience.

Experience in complex arbitrations.

Pro-bono award --1994 from NYS Bar Association for work with

¹ LeBoeuf Lamb merged with Dewey Ballantine in 2007 and became known as Dewey LeBoeuf. In 2012 Dewey LeBoeuf filed for bankruptcy – the largest law firm to do so in US history. Both firms were founded in the 1920s.

Nassau/Suffolk Law Service Committee, Inc.

STRATEGIC POWER MANAGEMENT, Inc. - Vice President, Secretary and General Counsel (1995 – 2004)

Founded Strategic Power Management, Inc. and participated in the development of the first retail access pilot program in New York State. Secured New York State Public Service Commission approval to provide retail electric and gas service in New York. Obtained a Federal Energy Regulatory Commission wholesale power marketing license. Reviewed all wholesale and retail electric contracts as well as represented SPM on the Management Committee of the New York Independent System Operator from its inception in November of 1999 to December 2004. Handled all legal and regulatory matters before the NYS PSC and FERC. SPM developed a unique business relationship that substantially reduced credit requirements.

ENGINEERING

Licensed Professional Engineer -- New York State

Project Manager -- EBASCO Services - 1973 - 1976

Project Engineer -- Havens and Emerson - 1970 - 1973

EDUCATION

MBA (Finance) Baruch College (CUNY) -- 2002

JD Fordham University School of Law-- 1976 (Admitted to Practice in NYS – 1977; NJ - 1983)

MSCE (Env. Eng.) Manhattan College --1972

BCE (Civil Eng.) Manhattan College-- 1970

MEMBERSHIPS (current or former): American Bar Association, Public Utility Committee; Administrative Law Committee New York State Bar Association, Public Utility Committee, Municipal Law Section; Energy Bar Association; Association of the Bar of City of New York, Energy Committee; New Jersey State Bar Association, Public Utility Section; Edison Electric Institute, Legal Committee; Long Island Association, Energy Committee; Fordham Law Alumni Association

TEACHING

Participated in rate making Continuing Legal Education programs sponsored by the American Bar Association and the New York Bar Association; Lectured on land using planning and zoning for NBI. Presented in March, 2014 at NBI's Land Use Seminar on the importance and use of Comprehensive Planning. Will be presenting in July 2015 at NBI's municipal law program on zoning and eminent domain

CIVIC

Town of Warwick Conservation Board, Chairman since 2003 (recently completed major investigation into hydraulic fracturing and recommended that the Town Board of Warwick ban same. Local laws were recently enacted banning heavy industrial land uses and the use of production fluids on Town Roads)

Member of Warwick's Comprehensive Planning Committee

Member of Sterling Forest Partnership (2005 to 2006); Member of Warwick Historical Society; Member Orange County Citizens Foundation; Member of Sustainable Warwick; and member Orange County Conservation Advisory Council EXHIBIT --- (DPD-2) MC-10, ATTACHMENT B

Suez Water New York

Capital Expenditure Plan - List of Proposed Projects

C16A101 I C16A102 I C16A103 I C16A104 I C16A105 I C16A100 I C16A100 I C16A500 I C16A500 I C16A500 I C16A502 I C16A504 I C17A502 I C17A503 I C18A504 I C17A503 I C20A100 I	LDF Treatment Plant Upgrade Blue Lake Dam Improvements Deforest Dam Stability/MPF/Inspection New test and production wells Replace Production Wells Maintain WS Capacity/MVG & Short Term WS Well Site Improvement Projects Indian Kill Dam/Joutier Upgrades Dam Improvements Rehab Spalled Concrete at LDF Dam	C18Axxx1DF Treatment Pit upgrad/1A1 C15A104 BlueLake Dami/A1 DeForest Dam Stability/A1 C16A103 New Test Wels/A1 C16A104 replace production well/A1 Maintain Water Supply Capacity/A1 C16A501 Well Site Improvement/A1	SIC Project SIC Project SIC Project
C16A101 I C16A102 I C16A103 I C16A104 I C16A105 I C16A100 I C16A100 I C16A500 I C16A500 I C16A500 I C16A502 I C16A504 I C17A502 I C17A503 I C18A504 I C17A503 I C20A100 I	Blue Lake Dam Improvements DeForest Dam Stability/MPF/Inspection New test and production wells Replace Production Wells Maintain WS Capacity/MQ& & Short Term WS Well Site Improvement Projects Indian KII Dam/Dutlet upgrades Dam Improvements	C15A104 Blue Lake Dam'A1 DeForest Dam Stability/IA1 C16A103 New Test Wells1A1 C16A103 replace production wellTA1 Maintain Water Supply Capacity/IA1	SIC Project
C16A103 f C16A104 f C16A100 f C13A510 V C16A500 I C16A500 I C16A502 I C16A503 F C16A504 F C17A502 F C17A503 F C17A503 F C18A500 F C18A500 F C20A100 I	New test and production wells Replace Production Wells Maintain WS Capacity/WQ & Short Term WS Well Site Improvement Projects Indian Kill Dam/Outlet upgrades Dam Improvements	C16A104 replace production well!A1 Maintain Water Supply Capacity!A1	
C16A104 F C16A100 I C13A510 I C16A500 I C16A502 I C16A503 F C16A504 F C17A502 F C17A503 I C18A500 F C120A100 I	Replace Production Wells Maintain WS Capacity/WQ & Short Term WS Well Site Improvement Projects Inidian Kill Dan/Outlet upgrades Dam Improvements	C16A104 replace production well!A1 Maintain Water Supply Capacity!A1	SIC Project
C16A100 I C13A510 X C16A500 I C16A502 I C16A503 I C16A504 I C17A502 I C17A503 I C178A503 I C18A500 I C120A100 I	Maintain WS Capacity/WQ & Short Term WS Well Site Improvement Projects Indian Kill Dam/Outlet upgrades Dam Improvements	Maintain Water Supply Capacity!A1	
C13A510 \ C16A500 I C16A502 I C16A503 F C16A503 F C16A504 F C17A502 F C17A501 S C17A503 I C18A500 F C20A100 I	Well Site Improvement Projects Indian Kill Dam/Outlet upgrades Dam Improvements		
C16A500 C16A502 C16A503 C16A503 C16A504 C17A502 C17A501 C17A503 C17A503 C18A500 C20A100	Indian Kill Dam/Outlet upgrades Dam Improvements		
C16A502 [C16A503 F C16A504 F C17A502 F C17A501 S C17A503 I C17A503 F C18A500 F C20A100 I	Dam Improvements	Indian Kill Dam_Outlet'!A1	
C16A503 F C16A504 F C17A502 F C17A501 S C17A503 I C18A500 F C20A100 I	Rehab Shalled Concrete at LDE Dam	C16A502 Dam Improvements!!A1	
C17A502 F C17A501 S C17A503 I C18A500 F C20A100 I		C16A503 DeForest Dam concrete'!A1	
C17A501 S C17A503 I C18A500 F C20A100 I	Potake Pond Low Level Outlet Rehab	C16A504 Potake Pond Low Level o' A1	
C17A503 C18A500 C20A100	RVWF Caisson Flood Protection	C17A502 RVWF Casisson'!A1	
C18A500 F C20A100 L	Stony Point Dam	C17A501 SP Dam!A1	SIC Project
C20A100 L	Indian Kill Dam Improvement	C17A503 Indian Kill Dam'IA1	SIC Project
	Potake Pond Stability Upgrades	C18A500 Potake Pond S'IA1	
C16B100	LDF Watershed Restoration	C20A100 LDF Watershed!A1	
C100100	GWUDI Treatment at RVWF 97	GWUDI Treatment!A1	
C16B101	GWUDI Treatment at Thiells 50	C19B101 GWUDI well 50'IA1	
	Sparkill Radionuclide Treatment	C16B102 Sparkill'A1	SIC Project
	Repl. Chem. Feed Equipment	C16B500 Repl Chem Feed Equip!A1	
C16B501	Replace Water Quality Monitoring Equ.	C16B501 Replace WQ Monit Equip! A1	
C16B502 I	Indian Kill Sludge Drain	C16B502Indian Kill Sludge Drain'!A1	
	Upgrade Grandview Arsenic Treatment	C16B503 Grandview arsenic!A1	
	Sludge Drying Bed Collection System	C16B504 Sludge drying bed [*] IA1	
	Iron/Manganese Treatment at select wells	C17B100 Iron Mang treatment!A1	SIC Project
	LDF Sedimentation Basin Covers	C17B110 LDF sed basin cover!A1	
	RVWF Facility Overhaul	C17B500 RVWF overhaul*A1	
C17B501 L	LDF Hypo Storage Building LDF Overhaul Traveling Screens	C17B504 Hypo building!A1	
	LDF Fish Deterrent	C17B502 Traveling Screens!A1 C17B503 Intake fish deterrent!A1	
	Sludge handling	C17B503 Intake hish deterrent (A)	SIC Project
	Well Deaeration Projects	C18B100 Well de-aeration'A1	
	Blue Lake WTP Improvements	C18B501 Blue Lake Improvements!A1	
C17C100	South County Facility Improvements	C17C100 SC improvements'!A1	
	SV Well Generator	C16C500 SV Generator'!A1	
	Electrical Upgrades at Spring Valley Well Field	C16C510 Elect improvements SVIA1	
	Letchworth Pump Station Generator	C16C502 Letchworth Gen"A1	
C16C504	Indian Kill Finished Water Pump & MCC Replacement LDF Projects	C16C503 Indian Kill MCC!A1 C16C504 LDF improvements!A1	
	Replace Instrumentation	C15C505 Replace instrumentation!A1	
	Well Instruments Low CL Cutoff	C16C506 Well Instruments Low CI!A1	
	Replace Well Pumps and Motors	C16C507 Repl Well Pumps and Mtr1A1	
	Replace Booster Pumping Equipment	C16C508 REplace booster pumps'IA1	
C16C509	SCADA Repl Hardware & Software	C16C509 SCADA'!A1	
C16C510	kW Meters at Facilities	C16C511 kW meters!A1	
	Blaisdale Improvements	C16C511 Blaisdale'!A1	
	Upgrades at Operating Facilities	C18C500 Upgrade at operating "IA1	
	Rep. PRV & add Electric Valves	C18C501 replace PRVs'!A1	
C19C500 E	Electrical Upgrades	C19C500 Electrical upgrades !! A1	
C16D001	Marco Hardenada		
	New Hydrants New Short Mains & Valves	C16D001 new hydrants'IA1 C16D002 short mains'IA1	
	New Mains - Company Funded - UIRP	C16D100 New Mains Company Fund!A1	
	Extensions, Current Year Projects	C16D300 Extensions Current Year!A1	
	Extensions & Refunds, Prior Year Projects	C16D301 Exten & Refnds Prior YR!A1	
C16D501	Replacement Fire Hydrants	C16D501 replace hyd!A1	
	Replacement Short Mains & Valves	C16D502 Replace short mains !! A1	
	Subdistrict Metering /DMAs	C16D503 DMA!!A1	
	Pressure reduction	C16D504 Pressure reduction'IA1	
	Main Replacement - UIRP Highway Related Main Replacement	C16D600 Main Repl UIRP!A1 C16D700 Highway Related Main Re!A1	
C100700 [i	ngnway related main replacement	C TOD TOO TIIGHWAY Related Main ResAt	
C16E500	New Haverstraw Tank (Monsey Tank) (2MG)	C16E500 New Hstraw Tank (2 MG)'IA1	SIC Project
	Tank Safety Improvements	Tank Safety Imps'IA1	
	New 3 MG Haverstraw Tank	C16E502 3MG Haverstraw Tank!A1	SIC Project
C16E503	New Sterling Lakes Tank	C16E503 Sterling Tank!A1	
	Rebuild Valve Vault and roadway at Indian Kill Tank	C16E505 IK Valve Vault!A1	
C20E501	Remote Controlled Valves	C20E501 Remote valve!A1	
			_
	New Domestic Services (Company Only)	C16F001 new Dom'lA1	-
	New Fire Services (Company Only) Replacement Domestic Services	C16F003 new fire!!A1 C16F501 repl services'!A1	
CIOLDOT	reprocement Domestic Services	C TO/ OUT TED SERVICES (A1	
C16G001	New Customer Meters	C16G001 new meters"A1	
	New RF Units	c16g002 new REs!A1	
C16G501	Replacement Customer Meters	C16G501 repl meters"A1	
	Replacement RF Devices	C16G502 repl RFs!A1	
C16G503 H	Fixed Meter Reading System	C16G503 Fixed meter system'IA1	
C16G504	Production Flow Meter Repl	C16G504 Production meters!A1	
C1C11C1	Menor Local Manifester (* 1997)		-
	Water Level Monitoring Devices at Wells	C16J101 Water Level Monitoring!A1	-
C16J100 0		C16J100 GIS!A1	
C16I102	Blue Lake Regulator SCADA Maplebrook Regulator SCADA	C16J102 Blue Lake SCADA'IA1 C16J103 Maplebrook SCADA'IA1	
	SCADA/Flow Meters at Interconnections	C16J100 SCADA Interconnections!A1	
	IT Server Upgrade	C17J101 IT server'IA1	
C17J101 II	Printers and Plotters	C16J501 Printer1A1	
	Hydraulic Modeling	C18J101 Hydraulic Model"[A1	
C16J501 F			_
C16J501 F C18J101 F	Leak Detection	C16K100 Leak detection"A1	
C16J501 F C18J101 F C16K100 L	Arc Flash Improvements	C16K101 Arc Flash'!A1 C16K102 Facilities Safety & Sec'!A1	-
C16J501 F C18J101 F C16K100 L C16K101 J		C16K102 Facilities Safety & Sec!A1 C16K103 LDF fence!A1	-
C16J501 F C18J101 F C16K100 L C16K101 J C16K102 F	Facilities Safety and Security	C TON TOS LUE TERCETAT	
C16J501 F C18J101 F C16K100 L C16K101 J C16K102 F C16K103 L	Facilities Safety and Security LDF Security Fence		
C16J501 F C18J101 F C16K100 L C16K101 / C16K102 F C16K103 L C16K103 L C16K104 F	Facilities Safety and Security LDF Security Fence New Tools and Work Equipment	C16K104 New Tools' A1	-
C16J501 F C18J101 F C16K100 L C16K100 F C16K102 F C16K102 F C16K103 L C16K104 F C16K104 F	Facilities Safety and Security LDF Security Fence	C16K104 New Tools'IA1 C16K500 Building Imp'IA1	
C16J501 F C18J101 F C16K100 I C16K101 / C16K102 F C16K103 I C16K104 F C16K500 C C16K502 F C17K101 F	Facilities Safety and Security LDF Security Fence New Tools and Work Equipment General Building Improvements Repl Tools and Work Equipment Heated Meter Storage Shed	C16K104 New Tools' A1	
C16J501 F C18J101 J C16K100 J C16K101 J C16K102 I C16K103 I C16K500 (C16K500 (C16K502 I C17K101 I C18K500 V	Facilities Safety and Security LDF Security Fence New Tools and Work Equipment General Bukking Improvements Regi Tools and Work Equipment Heated Meter Storage Shed WN Bukling Improvements	C16K104 New Tods1A1 C16K500 Building Imp1A1 C16K502 Repi Tods1A1 C17K101 Meter storage shed1A1 C18K500 WN Building Improvem1A1	
C16J501 F C18J101 F C16K100 I C16K101 / C16K102 F C16K103 I C16K500 (C16K500 I C16K502 F C17K101 F C18K500 V	Facilities Safety and Security LDF Security Fence New Tools and Work Equipment General Building Improvements Repl Tools and Work Equipment Heated Meter Storage Shed	<u>C16K104 New Tools'IA1</u> <u>C16K500 Building Imp'IA1</u> <u>C16K502 Repl Tools'IA1</u> <u>C17K101 Meter storage shed'IA1</u>	
C16J501 F C18J101 F C16K100 I C16K102 F C16K102 F C16K103 I C16K104 F C16K500 F C16K500 F C17K101 F C18K500 V C18K501 V	Facilities Safety and Security LDF Security Pence New Tools and Work Equipment General Building Improvements Rep1 Tools and Work Equipment Heated Meter Storage Shed WN Building Improvements Underground Vaults Safety Improvements	C16K104 New Tools1A1 C18K500 Building Imp1A1 C18K500 Repl Tools1A1 C17K101 Meter storage shed1A1 C18K500 V/N Building Improvem1A1 C19K500 Underground waul1A1	
C16J501 F C18J101 I C16K100 I C16K102 I C16K103 I C16K104 I C16K105 I C16K104 I C16K500 I C16K500 I C16K500 I C18K500 I C18K501 I C18K501 I C16M100 I	Facilities Safety and Security LDF Security Fence New Tools and Work Equipment General Building Improvements Rep1 Tools and Work Equipment Heated Meter Storage Shed WN Building Improvements Underground Vaults Safety Improvements Water supply / UIRP Design	C18K104 New Todd 1A1 C18K500 Building Ing/1A1 C18K502 Real Todd 1A1 C17K1011 Metre chorage sheet1A1 C18K502 Underground seul01A1 C19K500 Underground seul01A1 C19K100 Design(1A1	
C16J501 f C18J101 f C16K100 l C16K101 / C16K102 f C16K103 l C16K104 f C16K500 f C16K500 f C16K500 f C16K500 f C18K500 f C18K501 f C18K501 f C16M100 f C16M101 f	Facilities Safety and Security LDF Security Hence New Tools and Work Equipment General Building Improvements Repl Tools and Work Equipment Heated Meter Storage Shed WN Building Improvements Underground Vaulis Safety Improvements Water supply / UIRP Design Ramapo River Bain Optimization non SIC portion	C18/5104.New Took/1A1 C18/5002.Building Imr/A1 C18/5002.Ren/1 Took/1A1 C18/500.Understanderstel/A1 C18/500.Understanderstel/A1 C18/500.Understand wate/A1 C18/500.Understand wate/A1 C18/5100.Enterstand Category (C1/A1	
C16J501 F C16J501 F C16K100 F C16K101 J C16K102 F C16K103 F C16K104 F C16K500 F C16K500 F C16K500 F C16K500 F C18K501 F C18K501 F C18K501 F C16M100 F C16M101 F	Facilities Safety and Security LDF Security Fence New Tools and Work Equipment General Building Improvements Rep1 Tools and Work Equipment Heated Meter Storage Shed WN Building Improvements Underground Vaults Safety Improvements Water supply / UIRP Design	C18K104 New Todd 1A1 C18K500 Building Ing/1A1 C18K502 Real Todd 1A1 C17K1011 Metre chorage sheet1A1 C18K502 Underground seul01A1 C19K500 Underground seul01A1 C19K100 Design(1A1	

SUEZ Water New York Case 16-W-0130

Table of Contents'!A1

t Cost Est	imate Sh	eet					Suez Water Ne	w York
Pr	oject ID:	2015 C15A104					Business Unit #	200
Proj	ject Title:	Blue Lake Dam						
Year	Initiated:	2016						
Year i	n-service:	2018						
Major M	ilestones:	2016 Begin Pilo	ot Plant					
		2017 Begin des	ign and permi	tting of plar	ıt			
		2018 Construct	ion					
		2019 Completic	n					
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Compliance						
	2016	2017	2018	2019	2020	Total		
Expenditures	110	2000	15000	15000	5,000.0	37,110.0		
(Advances/CIAC)						0.0		
Net	110	2000	15000	15000	5000	37110		

Cost estimate Available Cost estimate not completed yet

	imate Sh oject ID:	eet 2015 C15A104					Suez Water Ne Business Unit # [200
Proj	ect Title:	Blue Lake Dam						
Year	Initiated:	2015						
Year i	n-service:	2016						
Major M	ilestones:	2015 Agreeme	nt with Watch	ower				
		2015 Construc	tion at Dam					
		2016 Payment						
UW Project Class	ification:	Water Supply						
Priority/C	Category:	Compliance						
	2015	2016	2017	2018	2019	Total		
Expenditures		924				924.0		
(Advances/CIAC)						0.0		
Net	0	924	0	0	0	924		

Cost Estimate	
Payment to Watchtower	\$823,888
Company time	\$456
Overheads	\$99,278
Total	\$923,622

Cost Est	imate Sh	eet					Suez Wat	ter N <u>e</u>	w York
Pr	oject ID:	2915 C16M101					Business Ui	nit #	200
Proj	ject Title:	LDF Dam Stal	oility						
Year	Initiated:	2007							
Year i	n-service:	2020							
Major M	ilestones:	2012 Complete	e EA for DEC						
		2016 Install ne	ew piezometer	at Dam at [DEC's recom	mendation			
		2017 - 2019 D	esign						
		2020 - 2021 C	onstruction						
UW Project Class	ification:	Water Supply							
Priority/0	Category:	Compliance							
	2016	2017	2018	2019	2020	2021	Total		
Expenditures	43.7	82.2	218.6	164.3	5542.3	10729.8	16781.0		
(Advances/CIAC)							0.0		

5542.3

10729.8

16781.0

Net 43.7 82.2 218.6 164.3

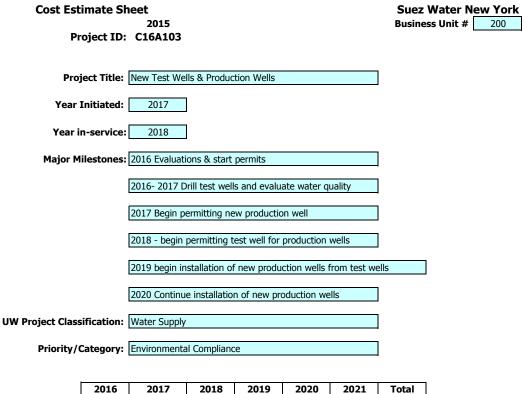
Cost estimate Available Cost estimate not completed yet

2015 Business Unit # 200 Project ID: C16A100 Project Title: Maintain WS Capacity Year Initiated: 2016 Year in-service: 2017 Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Begin design of 2nd well in NYU system 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance	Cost Est	imate Sh	eet					Suez Water Ne	w York
Project Title: Maintain WS Capacity Year Initiated: 2016 Year in-service: 2017 Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance								Business Unit #	200
Year Initiated: 2016 Year in-service: 2017 Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system Wu Project Classification: Water Supply Priority/Category: Compliance	Pr	oject ID:	C16A100						
Year Initiated: 2016 Year in-service: 2017 Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system Wu Project Classification: Water Supply Priority/Category: Compliance									
Year Initiated: 2016 Year in-service: 2017 Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system Wu Project Classification: Water Supply Priority/Category: Compliance	Proi	ect Title:	Maintain WS (apacity					
Year in-service: 2017 Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system Water Supply Priority/Category: Compliance									
Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance	Year	Initiated:	2016						
Major Milestones: 2017 - Design CT pipe at Monsey 30, Wesel Road 32, & Norge 64 2017 - Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance									
2017 -Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category:	Year i	n-service:	2017						
2017 -Design CT pipe at Cherry Lane 68, & Pine brook 69 2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category:	Maior M	ilestones:	2017 - Design	CT pipe at	Monsev 30.	Wesel Road	1 32, & Norae 64		
2018 - Begin design of 2nd well in NYU system 2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance			2017 200.g.	or pipe at	1101100 000		2 02, ot 110.90 0 1		
2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system Water Supply Priority/Category:			2017 -Design	CT pipe at (Cherry Lane	68, & Pine	brook 69		
2018 - Install CT pipe at Monsey Wesel, Norge and Cherry Lane 2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system Water Supply Priority/Category: Compliance									
2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance			2018 - Begin (lesign of 2r	nd well in N	/U system			
2018 - Design Eckerson, Rustic, Lake Shore and Westgate 2019 - Install 2nd well in NYU system WW Project Classification: Water Supply Priority/Category: Compliance			2018 - Install	CT nine at I	Monsev Wee	sel. Norge a	nd Cherry Lane		
2019 - Install 2nd well in NYU system UW Project Classification: Water Supply Priority/Category: Compliance			2010 1.000		1011007 1100	i, norge a			
UW Project Classification: Water Supply Priority/Category: Compliance			2018 - Design	Eckerson, I	Rustic, Lake	Shore and	Westgate		
UW Project Classification: Water Supply Priority/Category: Compliance									
Priority/Category: Compliance				2nd well in	NYU system	1			
	UW Project Class	ification:	water Supply						
	Priority/C	Category:	Compliance						
	г								
2017 2018 2019 2020 2021 Total Expenditures 326.2 799.1 219.1 542.9 806.2 2693.4	Evnonditures	-							
(Advances/CIAC) 0.0		520.2	799.1	219.1	572.9	000.2			
Net 326.2 799.1 219.1 542.9 806.2 2693.4	• • •	326.2	799.1	219.1	542.9	806.2			

Cost estimate Available Yes

CT Piping Engineering estimate	e ner site
Multiple projects may be comple	
Design	\$40,000
Materials	\$18,800
Construction	\$125,000
Company time	\$5,000
Inspection	\$15,000
Contingency	\$20,768
Overheads	\$33,685
Total	\$258,253

NYU Well - Engineering estim	ate
Design/Permit	\$40,000
Materials	\$15,000
Construction	\$70,000
Electrical	\$20,000
Company time	\$10,000
Inspection	\$15,000
Contingency	\$20,150
Overheads	\$28,523
Total	\$218,673



	2010	2017	2018	2019	2020	2021	Total
Expenditures	50	101	225	3,274	3,050	3,054	9,754
(Advances/CIAC)							0.0
Net	50	101	225	3,274	3,050	3,054	9,754

Cost estimate Available See June 2015 Report on the Feasibility of Incremental

Water Supply Projects and Conservation Opportunities in Rockland County, New York

Cost Esti Pr		eet 2015 C16A104					Suez Water New Yor Business Unit # 200	k <u>Table of Contents'!A1</u>
Proj	ect Title:	New Test Well	s & Replace	e Production	Wells			
Year 1	Initiated:	2017						
Year ii	n-service:	2018						
Major M	ilestones:	2017 Permit re	placement	of Catamou	int Well			
	[2018 - permit	new Ramap	o well				
	[2019 begin ins	tallation of	new Catam	ount Well			
	[2020 Complete	e Catamour	nt and being	new RVWF	well		
	[2021 Complete	e constructi	on of horizo	ontal well at	RVWF or rep	place production well at RVWF	
UW Project Class	ification:	Water Supply						
Priority/C	Category:	Environmental	Compliance	e				
	[
	2017	2018	2019	2020	2021	Total		
Expenditures	219.3	336.3	575.2	570.0	564.3	2,265.1		
(Advances/CIAC)						0.0		
Net	219.3	336.3	575.2	570.0	564.3	375.0		
Cost/Bene	efit Analysi	s Available:	Not Comple	ted yet				

Cost Esti Pro		eet 2015 C16A500					Suez Water Ne Business Unit # [200
Proj	ect Title:	Indian Kill Dar	n Outlet					
Year I	nitiated:	2017						
Year ir	-service:	2017						
Major Mi	lestones:	2016 - Design	& Permit					
		2017 - Rehabi	litate outlet,	, joints and	access			
		2018 - replace	sluice gate	S				
UW Project Class	ification:	Water Supply						
Priority/C	ategory:	Safety Complia	ance					
UW Project Class	ification:	Water Supply						
Priority/C	ategory:	Safety Compli	ance					
[2016	2017	2018	2019	2020	Total		
Expenditures	289.4	115.1				404.6		
(Advances/CIAC)						0		
Net	289.4	115.1	0.0	0.0	0.0	404.6		
Co	st Estima	te Available:	Yes					

Indian Kill Dam outlet - Engineering estimate						
Design/Permit	\$40,000					
Survey	\$8,000					
Construction	\$210,000					
Material	\$15,000					
Diver	\$20,000					
Company time	\$10,000					
Inspection	\$15,000					
Contingency	\$30,300					
Overheads	\$52,245					
Total	\$400,545					

Cost Est	imate Sh							Water N	_	
Pr	oject ID:	2015 C16A501					Busine	ss Unit #	2	200
Proj	ect Title:	Well Site Impro	ovements							
Year 1	Initiated:	2016								
Year i	n-service:	2016								
Major M	ilestones:	Summer 2016	- 2016 proj	ects in servi	се					
		Summer 2017	- 2017 proj	ects in servi	се					
		Summer 2018	- 2018 proj	ects in servi	се					
		Summer 2019	- 2019 proj	ects in servi	се					
UW Project Class	ification:	Water Supply								
Priority/C	Category:	Safety Complia	nce							
	2016	2017	2018	2019	2020	Beyond	Total			
Expenditures	55.6	54.8	111.9	82.2	114.0	112.9	531.3			
(Advances/CIAC)							0.0			
Net	55.6	54.8	111.9	82.2	114.0	112.9	531.3			

Engineering cost estimate for typical							
improvement work							
Roof Replacement	\$15,000						
Relief Valve	\$12,000						
Electrical work	\$5,000						
Flow meters	\$5,000						
Heaters	\$1,500						
Driveway Improvements	\$10,000						
Building Improvements	\$7,500						
Total	\$56,000						

Cost Estimate Sh	eet	Suez Water Ne	w York
Project ID:	2015 C16A502	Business Unit #	200
Project Title:	Dam Improvements		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	Summer 2016 - 2016 projects in service		
[Summer 2017 - 2017 projects in service		
[Summer 2018 - 2018 projects in service		
[Summer 2019 - 2019 projects in service		
UW Project Classification:	Water Supply		
Priority/Category:	Safety Compliance		

	2016	2017	2018	2019	2020	Beyond	Total
Expenditures	55.1	54.8	54.7	54.8	54.3	53.7	327.4
(Advances/CIAC)							0.0
Net	55.1	54.8	54.7	54.8	54.3	53.7	327.4

Engineering cost estimate							
Consultant	\$25,000						
Company Time	\$20,000						
Contingency	\$2,250						
Overheads	\$6,750						
Total	\$54,000						

	imate Sh oject ID:	eet 2015 C16A503					Suez Water N Business Unit #	ew York 200
Proj	ject Title:	DeForest Dam	concrete					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 work at	Howell Bun	dger vault				
		2017 complete	e spalled co	ncrete work	[
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Safety Compli	ance					
	2016	2017	2018	2019	2020	Total		
Expenditures	150.0	109.7				259.7		
(Advances/CIAC)						0		

Total \$260,705							
Overheads	\$34,005						
Contingency	\$19,700						
Inspection	\$10,000						
Company time	\$5,000						
Construction	\$175,000						
Survey	\$5,000						
Design	\$12,000						
LDF Concrete Engineering estimate							

	imate Sh oject ID:	eet 2015 C16A504					Suez Water N Business Unit #	ew York 200
Proj	ect Title:	Potake Pond L	ow Level O	utlet				
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - Constr	uction					
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Safety Compli	ance					
	2016	2017	2018	2019	2020	Total		
Expenditures (Advances/CIAC)	221.0					221.0 0		

Potake Pond Engineering estimate							
Design	\$15,000						
Permitting	\$5,000						
Survey	\$15,000						
Construction	\$115,000						
Company time	\$5,000						
Inspection	\$20,000						
Contingency	\$15,500						
Overheads	\$28,575						
Total	\$219,075						

Cost Est	Suez Water Ne Business Unit #	200						
ri	oject ID.	C17A503						
Proj	ject Title:	Indian Kill Dar	n Improvem	ents				
Year	Initiated:	2015						
Year i	n-service:	2016						
Major M	ilestones:	2015 Submit E	EA to DEC Da	am Safety				
		2017 Begin De	esign					
		2021 Construc	tion					
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Safety Complia	ance					
	2017	2018	2019	2020	2021	Total		
Expenditures	148.6	160.1	127.0	108.6	5,239.2	5783.5		
(Advances/CIAC)						0		
Net	148.6	160.1	127.0	108.6	5239.2	5783.5		
Cost estimate	Available	Cost estimate	not complet	ed yet				

Cost Est	Suez Water N							
Pr	oject ID:	2015 C17A503					Business Unit #	200
	-							
Proj	ject Title:	Indian Kill Dan	n Improvem	ent				
Year	Initiated:	2017						
Year i	n-service:	2019						
Major M	ilestones:	2017 Submitta	l to DEC and	d begin desi	gn			
		2018 Begin Co	nstruction					
		2019 Complete	e Design					
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Safety Complia	ance					
	2016	2017	2018	2019	2020	Total		
Expenditures	-	207.0	1,048.0	167.0		1422.0		
(Advances/CIAC)						0		
Net	0.0	207.0	1048.0	167.0	0.0	1422.0		
Cost estimate	Available	Cost estimate	not complet	ed vet				

Cost Est	Suez Water N	ew York						
Pr	oject ID:	2015 C17A502		Business Unit #	200			
Proj	ect Title:	RVWF Casisso	n work					
Year 1	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2017 permittir	ng 97, 99 qn	d 100				
		2018 Construc	tion 97, 99	and 100				
		2019 Permittir	ng 93, 95 an	d 96				
		2020 Construc	tion 93, 95	and 96				
UW Project Class	ification:	Water Supply						
Priority/C	Category:	Safety Complia	ance					
	2016	2017	2018	2019	2020	Total		
Expenditures	-	-	273.3	-	325.7	0.0		
(Advances/CIAC)						0		
Net	0.0	0.0	273.3	0.0	325.7	599.0		

RVWF Caisson Engineering estimate					
Design	\$30,000				
Survey	\$10,000				
Construction	\$150,000				
Company time	\$5,000				
Inspection	\$25,000				
Contingency	\$19,500				
Overheads	\$35,925				
Total	\$275,425				

Cost Est	imate Sh	eet					Suez Water Ne	w York
Pr	oject ID:	2015 C18A500					Business Unit #	200
Proj	ject Title:	Potake Pond S	Stability Imp	rovements				
Year	Initiated:	2018						
Year i	n-service:	2019						
Major M	ilestones:	2015- Submit	EA to DEC					
		2018 Start des	sign					
		2018 Construc	tion Starts					
		2019 Complet	e Constructi	on				
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Safety Complia	ance					
	2016	2017	2018	2019	2020	Total		
Expenditures	-	-	273.3	-	325.7	0.0		
(Advances/CIAC)						0		
Net	0.0	0.0	273.3	0.0	325.7	599.0		
Cost estimate	Available	Cost estimate	not complet	ted yet				

Cost Estimate Sheet 2015 Project ID: C20A100							Suez Water New York Business Unit # 200	
Proj	ject Title:	LDF Watershe	d Improven	nents				
Year	Initiated:	2020						
Year i	n-service:	2020						
Major M	Major Milestones: 2019 - design and permitting							
		2020 - Constru	uction					
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Water Quality						
	2016	2017	2018	2019	2020	Total		
Expenditures	-	-			217.1	217.1		
(Advances/CIAC)						0		
Net	0.0	0.0	0.0	0.0	217.1	217.1		

Watershed Engineering estimate					
Design	\$5,000				
Survey	\$20,000				
Installation	\$150,000				
Company time	\$10,000				
Overheads	\$27,750				
Total	\$212,750				

SUEZ Water New York Case 16-W-0130

Cost Estimate Sheet

C16M101

Ramapo River Supply Optimization

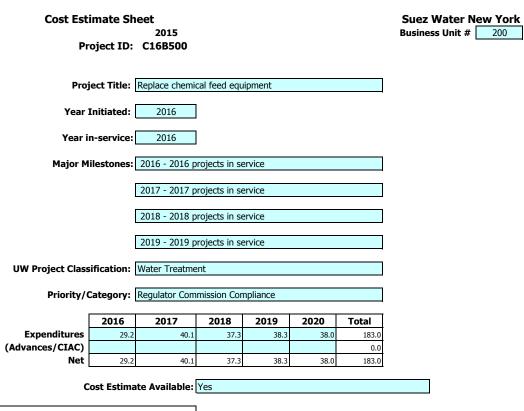
Cost Est	imate Sh	eet 2015					Suez Water N Business Unit #	ew York 200
Pr	oject ID:	C16B100						200
Proj	ject Title:	GWUDI treatr	nent well 97	7				
Year	Initiated:	2014						
Year i	n-service:	2017						
Major M	ilestones:	2012 Revieve	GWUDI not	tice from DO	Η			
		2014 Begin de	esign					
		2017 Complet	e Design					
		2018 Complet	e constructi	ion				
UW Project Class	ification:	Water Treatm	ient					
Priority/0	Category:	Regulator Cor	nmission Co	mpliance				
	2014	2015	2016	2017	2018	Total		
Expenditures	75.0	10.0	110.3	548.3	1,311.8	2,055.3		
(Advances/CIAC)						0.0		
Net	75.0	10.0	110.3	548.3	1311.8	2055.3		

RVWF 97 GWUDI Engineering estimate					
Design	\$75,000				
Survey	\$20,000				
Building	\$411,061				
Electrical	\$267,190				
Well Pump	\$61,659				
Equipment	\$739,910				
Instrumentation	\$205,531				
Overheads	\$267,053				
Total	\$2,047,404				

Cost Est	imate Sh						Suez Water N	
Pr	oject ID:	2015 C19B101					Business Unit #	200
Proj	ject Title:	GWUDI treat	ment well 50	0				
Year	Initiated:	2019						
Year i	n-service:	2020						
Major M	ilestones:	2012 Revieve	GWUDI not	tice from DC	ЭН			
		2019 Begin d	esign					
		2019 Comple	te Design					
		2020 Constru	ction					
UW Project Class	ification:	Water Treatm	nent					
Priority/0	Category:	Regulator Cor	mmission Co	ompliance				
	2016	2017	2018	2019	2020	Total		
Expenditures		-		164.3	1,194.3	1,358.6		
(Advances/CIAC)						0.0		
Net	0.0	0.0	0.0	164.3	1194.3	1358.6		

Thiells 50 GWUDI Engineering estimate					
Design	\$60,000				
Survey	\$8,000				
Building	\$271,723				
Electrical	\$176,620				
Well Pump	\$40,758				
Equipment	\$489,101				
Instrumentation	\$135,861				
Overheads	\$177,310				
Total	\$1,359,373				

	imate Sh oject ID:	eet 2015 C16B102					Suez Water New York Business Unit # 200
Proj	ject Title:	Sprarkill					
Year	Initiated:	2016					
Year i	n-service:	2019					
Major M	ilestones:	2016 Design					
		2017 Complet	e design an	d start plan	ning board	permit	
		2017 Permit v	vith DOH				
		2018 Order ed	quipment ar	nd bid const	ruction		
		2019 Complet	e constructi	ion			
SW Project Class	ification:	Water Treatm	ent				
	2016	2017	2018	2019	2020	Total	
Expenditures	75.0	109.7	109.3	2,215.0		2,509.0	
(Advances/CIAC)						0.0	
Net	75.0	109.7	109.3	2215.0	0.0	2509.0	
Cost estimate	Available	Cost estimate	not comple	ted yet			



Repl Chem Feed Equipment Engineering estimate per project per site. Multiple projects are						
completed each year. Costs vary by project						
Equipment	\$5,000					
Electrical	\$1,000					
Company time	\$500					
Overheads	\$975					
Total	\$7,475					

Cost Estimate Sheet							Suez Water N	
Pr	oject ID:	2015 C16B501					Business Unit #	200
	-							
Proj	ject Title:	Replace WQ Mo	nitoring					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in sei	rvice				
		2017 - 2017 pr	ojects in sei					
		2018 - 2018 pr	ojects in sei	vice				
		2019 - 2019 pr	ojects in sei	vice				
UW Project Class	ification:	Water Treatmer	nt					
Priority/0	Category:	Regulator Comr	nission Com	pliance				
	2016	2017	2018	2019	2020	Total		
Expenditures	27.6	54.8	54.7	54.8	54.3	246.1		
(Advances/CIAC)								
Net	27.6	54.8	54.7	54.8	54.3	246.1		
C	Cost Estima	ate Available:	Yes					

Repl WQ Equipment Engineering estimate per							
project per site. Multiple projects are completed							
each year. Costs vary by project							
Equipment	\$5,000						
Electrical	\$1,000						
Company time	\$500						
Overheads	\$975						
Total \$7							

	imate Sh oject ID:	eet 2015 C16B502					Suez Water N Business Unit #	ew York 200
Proj	ject Title:	Indian Kill Slue	dge Drain					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 Design a	and construc	ction				
UW Project Class	ification:	Water Supply						
Priority/0	Category:	Safety Complia	ance					
	2016	2017	2018	2019	2020	Total		
Expenditures (Advances/CIAC)	22.0					22.0 0		

Total	\$22,425			
Overheads	\$2,925			
Company Time	\$1,500			
Contractor	\$12,000			
Electrical	\$1,000			
Equipment	\$2,000			
Survey	\$2,000			
Design	\$1,000			
Indian Kill Sludge Drain Engineering estimate				

Cost Estimate Sh	Suez Water New York						
Project ID:	2015 C16B503			Business Unit #	200		
	0102000						
Project Title:	Grandview Ars	enic					
Year Initiated:	2014						
Year in-service:	2017						
Major Milestones:	2014 - Begin d	esign					
2016 Complete design and Planning Board approval							
	2017 Permit with DOH						
	Equipment a	and award c	onstruction				
	2018 construct	tion complet	ted				
UW Project Classification:	Water Treatme	ent					
Previous	2016	2017	2018	Beyond	Total		
Expenditures	55.1	822.4	218.6		1,096.2		
(Advances/CIAC)					0.0		
Net 0.0	55.1	822.4	218.6	0.0	1,096.2		
Cost estimate Available	Cost estimate	not complet	ed yet				

Cost Est Pr	Suez Water M Business Unit #						
Pro	ject Title:	Sludge drying	bed				
Year	Initiated:	2016					
Year i	n-service:	2017					
Major M	Major Milestones: 2016 Design and permit						
	Q4 2016 bid and award construction						
		2017 Construc	tion				
UW Project Class	sification:	Water Treatme	ent				
Priority/	Category:	Environmental	Compliance	5			
	2015	2016	2017	2018	Beyond	Total	
Expenditures		100.0	2,741.4			2,841.4	
(Advances/CIAC)						0.0	
Net	0.0	100.0	2,741.4	0.0	0.0	2,841.4	

Cost/Benefit Analysis Available: Yes

Sludge Drying Bed and Baffles Engineering							
estimate	estimate						
Design	\$20,000						
Survey	\$5,000						
Permitting	\$10,000						
Grading	\$20,000						
Material	\$275,000						
Equipment Replace liner	\$200,000						
Equipment Replace baffles	\$250,000						
Replace drainage & Install liner	\$700,000						
Install Baffles	\$500,000						
Inspection	\$100,000						
Company Time	\$75,000						
Contingency	\$323,250						
Overheads	\$371,738						
Total	\$2,849,988						

Suez Water N	
Susiness Unit #	200

Cost Est	eet					Suez Water N	ew York	
Pr	oject ID:	2015 C17B100					Business Unit #	200
Proj	ject Title:	Iron and Mang	anese					
Year 1	Initiated:	2016						
Year i	n-service:	2017						
Major M	Spring 2017 - [Design Iron,	/Manganese	e removal Ga	arnerville			
Fall 2017 - Permit Iron/Manganese removal Garnerville					erville			
2018 - Construct treatment Garnerville								
	Spring 2019 - I	Design Iron,	/Manganese	e removal Ba	ardonia			
	Fall 2019 - Per	mit Iron/Ma	inganese re	moval Bardo	onia			
		2020 - Constru	ct treatmen	it at one we	211			
	2017	2018	2019	2020	Beyond	Total		
Expenditures	198.0	194.6	199.6	432.0		1,024.2		
(Advances/CIAC)						0.0		
Net	198.0	194.6	199.6	432.0	0.0	1,024.2		
Cost estimate	Available	Cost estimate r	not complet	ed vet				

	imate Sh oject ID:	eet 2015 C17B110					Suez Water New Business Unit #	York 200
Proj	ect Title:	Sedimentation	Basin Cover					
Year	Initiated:	2017						
Year i	n-service:	2017						
Major M	ilestones:	2017 Design ar	nd construct	tion				
	l							
UW Project Class Priority/0	Category:	Water Treatme						
	2015	2016	2017	2018	Beyond	Total		
Expenditures			65.8			65.8		
(Advances/CIAC)						0.0		
Net	0.0	0.0	65.8	0.0	0.0	65.8		
Cost estimate	Available	Yes						
Sed Basin Eng	ineering esti	imate						
	Design	\$1,000						
	Survey	\$2,000						
	Equipment	\$20,000						
	Contractor	\$30,000						
Com	npany Time	\$4,000						
	Overheads	\$8,550						
	Total	\$65,550						

Cost Estimate Sheet	Suez Water New York
2015 Project ID: C17B500	Business Unit # 200
Project Title: RVWF Overhaul]
Year Initiated: 2017	
Year in-service: 2019	
Major Milestones: Spring 2017 Begin Design]
2017 Design new High Lift Pumps and evaluate VFDs]
2018 Complete permitting of High Lifts & order equipment]
Spring 2019 Begin replacing meters and installing power met	ers
Fall 2019 Begin replacing High Lift pumps install VFDs]
2020 Complete replacing High Lift pumps install VFDs]

	2017	2018	2019	2020	Beyond	Total
Expenditures	54.8	82.0	547.8	542.9	430.0	1,657.4
(Advances/CIAC)						0.0
Net	54.8	82.0	547.8	542.9	430.0	1,657.4

Cost estimate Available Yes

Engineering estimate for impr	Total for	
Multiple projects may be comple	ted in a year	Well Field
Design	\$75,000	\$75,000
High Lift Pump (per pump)	\$240,000	960000
VFD for High Lifts (per VFD)	\$70,000	280000
Power Meters	\$3,500	\$28,000
Company time	\$20,000	\$20,000
Inspection	\$15,000	\$15,000
Contingency	\$31,080	\$67,150
Overheads	\$68,187	\$216,773
Total	\$522,767	\$1,661,923

Cost Estimate Sheet	Suez Water New York
2015	Business Unit # 200
Project ID: C17B504	
Project Title: Hypo Building	
Year Initiated: 2017	
Year in-service: 2017	
Major Milestones: 2017 - Construction	
UW Project Classification: Water Treatment	
Priority/Category: Infrastructure Replacement	

2015	2016	2017	2018	Beyond	Total
	0.0	260.0			260.0
					0.0
0.0	0.0	260.0	0.0	0.0	260.0
		0.0	0.0 260.0	0.0 260.0	0.0 260.0

Cost estimate Available Yes

Hypo Building Engineering estimate						
Design	\$10,000					
Survey	\$2,000					
Permitting	\$5,000					
Building	\$75,000					
Electrical	\$15,000					
Piping	\$15,000					
Contractor	\$100,000					
Company Time	\$5,000					
Overheads	\$34,050					
Total	\$261,050					

(Advances/CIAC)

Net

Table of Contents'!A1

Cost Est	imate Sh	eet					Suez Water Ne	w York
Pr	oject ID:	2015 C17B503					Business Unit #	200
Proj	ject Title:	LDF Intake Sci	reen					
Year	Initiated:	2017						
Year i	n-service:	2017						
Major M	ilestones:	2017 Q design	and permit	:				
		2017 Q4 Cons	truction					
UW Project Class	ification:	Water Treatme	ent					
Priority/0	Category:	Infrastructure	Replaceme	nt				
	2016	2017	2018	2019	2020	Total		
Expenditures	0	247.8	-			247.8		

0.0

0.0

0.0

0.0 247.8

Cost estimate Available Yes

247.8

0.0

Intake Engineering estimate						
Design	\$10,000					
Diver	\$20,000					
Permitting	\$10,000					
Material	\$5,000					
Installation	\$160,000					
Company Time	\$10,000					
Overheads	\$32,250					
Total	\$247,250					

Cost Est	Suez Water N	ew York						
Pr	oject ID:	2015 C17B502		Business Unit #	200			
	-							
Proj	ect Title:	LDF Travelng S	Screens					
Year	Initiated:	2019						
Year i	n-service:	2020						
Major M	ilestones:	2019 Q1 Desig	ın & Permit					
		2019 - Q3 Ord	er equipeme					
	[Fall 2019 bid v	vork					
	ĺ	Spring 2020 B	egin Constru	uction				
UW Project Class	ification:	Water Treatme	ent					
Priority/C	Category:	Infrastructure	Replacemer	nt				
	2016	2017	2018	2019	2020	Total		
Expenditures	0	-	-	115.0	1,628.6	1,743.6		
(Advances/CIAC)						0.0		
Net	0.0	0.0	0.0	115.0	1,628.6	1,743.6		
c	cost estima	ate Available	Cost estima	te not comp	leted yet			

Cost Estimate Sheet							Suez Water Ne	w York
Pr	oject ID:	2015 C17B503					Business Unit #	200
Proj	ect Title:	Sludge Lagoon	IS					
Year 1	Initiated:	2020						
Year i	n-service:	2021						
Major M	ilestones:	2020 Q1 Desig	n & Permit					
		2020 - Q3 Ord	er equipeme					
		Fall 2020 bid w	vork					
		Spring 2021 Be	egin Constru	uction				
UW Project Class	ification:	Water Treatme	ent					
Priority/Category: Infrastructure Replacement								
	2017	2018	2019	2020	2021	Total		
Expenditures	0	-	-	108.0	3,092.4	3,200.4		
(Advances/CIAC) Net	0.0	0.0	0.0	108.0	3,092.4	0.0 3,200.4		
Net	0.0	0.0	0.0	100.0	5,052.1	5,200.4		
Cost estimate	Available	Cost estimate	not complet	ed yet				

	imate Sh oject ID:	eet 2015 C18B100					Suez Water New York Business Unit # 200
Proj	ect Title:	Well De-aerati	on Projects				
Year	Initiated:	2018					
Year i	n-service:	2018					
Major M	ilestones:	2018 Install De	e-areation a	at Birchwood	70		
	[2020 Install De	e-areation a	at Lakeshore	73		
UW Project Class							
Priority/0	1	Infrastructure	•				
	2017	2018	2019	2020	2021	Total	
Expenditures (Advances/CIAC)	0	532.7	-	542.9		1,075.5	
(Auvances/CIAC)						0.0	

0.0

542.9

1,075.5

0.0

Cost estimate Available Yes

0.0

532.7

Engineering estimate per site				
Design	\$25,000			
Permitting	\$15,000			
Equipment	\$150,000			
Construction	\$200,000			
Inspection	\$30,000			
Company Time	\$10,000			
Contingency	\$43,000			
Overheads	\$64,500			
Total	\$537,500			

Cost Est	imate Sh	eet					Suez Water N	ew York
Pr	oject ID:	2015 C18B501					Business Unit #	200
Pro	ject Title:	Blue Lake Imp	rovements					
Year	Initiated:	2019						
Year i	n-service:	2020						
Major M	ilestones:	2019 Design a	nd permittir	ng				
		2020 bid and b	egin constr	uction				
		2021-2022 cor	struction					
UW Project Class	ification:	Water Treatme	ent					
Priority/	Category:	Infrastructure	Replacemer	nt				
	2017	2018	2019	2020	2021	Total		
Expenditures	0	-	109.6	217.1	1,000.0	1,326.7		
(Advances/CIAC)						0.0		
Net	0.0	0.0	109.6	217.1	1,000.0	1,326.7		

Cost estimate Available Yes

Engineering estimate per F	Project
Design	\$75,000
Roof	\$20,000
MCC	\$150,000
Door Replacement	\$10,000
Safety Improvements	\$35,000
Replace retaining wall	\$18,000
Electrical Improvements	\$20,000
Fencing and cameras	\$75,000
Treatment Improvements	\$500,000
Replace driveway	\$75,000
Inspection	\$75,000
Company Time	\$20,000
Contingency	\$107,300
Overheads	\$160,950
Total	\$1,341,250

	imate Sh oject ID:	eet 2015 C17C100					Suez Water New York Business Unit # 200
Pro	ject Title:	SC Improveme	nts				
Year	Initiated:	2016					
Year i	n-service:	2016					
Major M	ilestones:	2016 - 2016 p	rojects in se	ervice			
		2017 - 2017 p	rojects in se	ervice			
		2018 - 2018 p	rojects in se	ervice			
		2019 - 2019 p	rojects in se	ervice			
		2020 - 2020 p	rojects in se	ervice			
UW Project Class	ification:	Water Treatme	nt				
	2016	2017	2018	2019	2020	Total	
Expenditures	55.1	54.8	159.8	219.1	217.1	706.0	

0.0 706.0

Cost estimate Available

55.1

54.8

159.8

Yes

219.1

217.1

Engineering estimate for various Projects. Multiple				
projects completed at different site	es per year			
Cameras and fencing	\$35,000			
Window replacement	\$60,000			
Cathodic Protection	\$25,000			
Replace windows and doors	\$20,000			
Concrete Rehabilitation	\$5,000			
Heater	\$3,000			
Hot Water unit	\$2,500			
Replace eye wash	\$1,000			
Company Time	\$5,000			
Contingency	\$15,650			
Overheads	\$21,910			
Total	\$194,060			

(Advances/CIAC)

Cost Estimate Sheet Suez Water New York 2015 Business Unit # 200 Project ID: C16C500 Project Title: SV Generator Year Initiated: 2018 Year in-service: 2019 Major Milestones: 2018 Evaluate and design generator 2019 Install new transfer switch and electrical connections

109.6

164.2

0.0

UW Project Class	Water Treatm	ent				
Priority/C	Category:	Infrastructure	Replacemen	nt		
	2016	2017	2018	2019	2020	Total
Expenditures	0	-	54.7	109.6		164.2
(Advances/CIAC)						0.0

0.0

54.7

Cost estimate Available Yes

0.0

Engineering estimate					
Design	\$25,000				
Permits	\$2,000				
Equipment	\$75,000				
Installation	\$25,000				
Company Time	\$3,000				
Contingency	\$13,000				
Overheads	\$19,500				
Total	\$162,500				

Cost Estimate Sh Project ID:	2015	Suez Water New York Business Unit # 200
Project Title:	Electrical Improvements SV	
Year Initiated:	2016	
Year in-service:	2016	
Major Milestones:	2016 Evaluate and replace Transformer	
	2017 Replace electrical service as needed	
	2018 - Replace Panels	
	2018 Replace electrical service within well field	
	2019 - upgrade feeders	
UW Project Classification:	Water Treatment	
2016	2017 2018 2010 2020 Tel	hal

	2016	2017	2018	2019	2020	Total
Expenditures	55.1	104.1	103.3	103.5		366.1
(Advances/CIAC)						0.0
Net	55.1	104.1	103.3	103.5	0.0	366.1

Cost estimate Available Yes

Engineering estimate for various Projects.				
Multiple projects may be comple	eted per year			
Electric panel	\$10,000			
Electric meter	\$10,000			
Replace underground electric	\$50,000			
Replace electric within building	\$20,000			
replcate electric panel	\$15,000			
Company Time	\$5,000			
Contingency	\$11,000			
Overheads	\$15,400			
Total	\$136,400			

Cost Estimate S	heet	Suez Water Ne	w York
Project ID	2015 C16C502	Business Unit #	200
Project ID:			
Project Title	Letworth Generator		
Project Inde.			
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones	Q1 2016 Design & order equipment		
	Q3 2016 Construction		
UW Project Classification:	Water Treatment		
Priority/Category:	Infrastructure Replacement		

	2015	2016	2017	2018	Beyond	Total
Expenditures		55.1				55.1
(Advances/CIAC)						0.0
Net	0.0	55.1	0.0	0.0	0.0	55.1

Cost estimate Available Yes

Engineering estimate for Letch	worth Gen
Equipment	\$25,000
Installation	\$15,000
permits	\$2,000
Company Time	\$5,000
Overheads	\$7,050
Total	\$54,050

Cost Est	imate Sh	eet					Suez Water Ne	ew York
Pr	oject ID:	2015 C16C503					Business Unit #	200
Proj	ject Title:	Indian Kill MCC	2					
Year	Initiated:	2016						
Year i	n-service:	2017						
Major M	ilestones:	2016 Design						
		Q4 2016 bid w	ork and ord	er equipmer	nt			
		2017 - Constru	iction					
UW Project Class	ification:	Infrastructure	Improveme	nt				
Priority/0	Category:	Infrastructure	Replacemer	nt				
	2015	2016	2017	2018	2019	Total		
Expenditures		55.1	219.3			274.4		
(Advances/CIAC)						0.0		
Net	0.0	55.1	219.3	0.0	0.0	274.4		

Cost estimate Available Yes

Engineering estimate for Letch	worth Gen
Design	\$15,000
Permits	\$5,000
Equipment	\$125,000
Installation	\$75,000
Inspection	\$15,000
Company Time	\$5,000
Overheads	\$36,000
Total	\$276,000

Cost Estimate Sheet 2015 Project ID: C16C504 Project Title: LDF Improvements Year Initiated: 2016 Year in-service: 2016 Major Milestones: 2016 - 2016 projects in service 2017 - 2017 projects in service 2018 - 2018 projects in service 2019 - 2019 projects in service 2020 - 2020 projects in service UW Project Classification: Water Treatment 2020 2016 2017 2018 2019 Total Expenditures 98.0 99. 109.3 164.3 162.9 633.7 (Advances/CIAC) 0.0 Net 98.0 99.1 109.3 164.3 162.9 633.7 Cost estimate Available

Yes

Engineering estimate for various Projects.					
Multiple projects completed per year.					
Additional projects added as	needed				
Door Alrams and Motion Sensors	\$7,000				
Repalce railing	\$20,000				
Chemical storage	\$56,000				
replace sump pumps	\$3,000				
Concrete Rehabilitation	\$5,000				
Replace CO2 Piping	\$150,000				
DAF Instrumentation	\$25,000				
Replace DAF Compressors	\$25,000				
CO2 Valve	\$20,000				
Company Time	\$30,000				
Overheads	\$43,540				
Total	\$384,540				

Suez Water New York Business Unit # 200

- Tamper proof hinges to backwash tank hatch \$0.5K
- Alarm/motion sensor \$3.5K Door Alarm \$3.5K
- Replace railing- \$20K

- - Cover Floc basins \$350K
- Additional Storage for Caustic and Coagulant \$56K
- Replace hydraulic flocculators with mechanical mixers \$417K
- Replace sump pumps (2) \$3K
- A number of other projects were identified for further evaluation:
- Implement additional Lake Aeration stages (if needed) - Install dedicated intake, currently split between river and plant
- Add third DAF train (increase flow and/or reliability)
- Replace CO2 piping
- For 2016 we will look to do the following projects:
- Add additional DAF instruments \$25K
- Replace DAF compressors \$25K
- Install door alarms and motion sensors \$7
- -Repl the CO2 valve \$20k

Cost Est	imate Sh						Suez Water New York
Pr	oject ID:	2015 C16C505					Business Unit # 200
Proj	ject Title:	Replace Instru	umentation				
Year	Initiated:	2016					
Year i	n-service:	2016					
Major M	ilestones:	2016 - 2016	projects in s	ervice			
		2017 - 2017	projects in s				
		2018 - 2018	projects in s	ervice			
		2019 - 2019	projects in s	ervice			
UW Project Class	ification:	Pumping					
Priority/0	Category:	Other prevent	ion of servio	ce deficienci	es		
	2016	2017	2018	2019	2020	Total	
Expenditures	27.6	49.6	48.9	49.8	54.3	230.1	
(Advances/CIAC) Net	27.6	49.6	48.9	49.8	54.3	0.0 230.1	
	2/10	1510		.510	2 110		

Cost Estimate Available: Yes

Repl Chem Instrumentation Er	ngineering
estimate per project per site. Mu	ltiple projects
are completed each year. Costs v	ary by project
Equipment	\$5,000
Electrical	\$1,000
Company time	\$500
Overheads	\$975
Total	\$7,475

	imate Sh oject ID:	eet 2015 C16C510					Suez Water N Business Unit #	ew York 200
Proj	ject Title:	kW Meters at	Facilities					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016	projects in s	service				
2017 - 2017 projects in servio								
		2018 - 2018	projects in s	service				
		2019 - 2019	projects in s	service				
UW Project Class	ification:	Pumping						
Priority/0	Category:	Other prevent	ion of servi	ce deficienci	es			
	2016	2017	2018	2019	2020	Total		
Expenditures	27.6	49.6	49.7	49.8		176.7		
(Advances/CIAC)						0.0		
Net	27.6	49.6	49.7	49.8	0.0	176.7	<u> </u>	
Ca	ost Estimat	e Available:	Yes					

Install kW meters Engineering estimate per						
project per site. Multiple pro	jects are					
completed each year. Costs var	completed each year. Costs vary by project					
Equipment	\$2,000					
Electrical	\$1,000					
SCADA	\$1,500					
Company time	\$500					
Overheads	\$750					
Total	\$5,750					

	imate Sh oject ID:	eet 2015 C16C506					Suez Water N Business Unit #	
Proj	ject Title:	Well Instrume	ntation Low	CL Cutoff				
Year	Initiated:	2016						
Year i	n-service:	2016						
Major Milestones: 2016 - 2016 projects in service								
2017 - 2017 projects in service								
		2018 - 2018	projects in s	ervice				
	ĺ	2019 - 2019	projects in s	ervice				
UW Project Class	ification:	Pumping						
Priority/Category: Other preven			ion of servio	ce deficienci	es			
	2016	2017	2018	2019	2020	Total		
Expenditures	33.1	76.8	109.3	109.6		328.7		
(Advances/CIAC)						0.0		
Net	33.1	76.8	109.3	109.6	0.0	328.7		
Co	ost Estimat	e Available:	Yes					

Well Instrumentation - Low Cl E	ingineering
estimate per project per site. Mu	ltiple projects
are completed each year. Costs v	ary by project
Equipment	\$5,000
Electrical	\$1,500
SCADA	\$1,500
Company time	\$1,000
Overheads	\$1,350
Total	\$10,350

Cost Estimate Sheet 2015 Project ID: C16C507							Suez Water New York Business Unit # 200
Proj	ject Title:	Replace Well Pu	Imps and M	otors			
Year	Initiated:	2016					
Year i	n-service:	2016					
Major Milestones: 2016 - 2016 projects in service							
2017 - 2017 projects in service							
2018 - 2018 projects in service							
		2019 - 2019 pr	ojects in se	rvice			
		2020 - 2020 pr	ojects in se	rvice			
UW Project Class	ification:	Pumping					
	2016	2017	2018	2019	2020	Total	
Expenditures	275.7	383.8	327.9	383.5	380.0	1,750.8	
(Advances/CIAC)						0.0	
Net	275.7	383.8	327.9	383.5	380.0	1,750.8	
c	Cost Estima	ate Available:	Yes				

Well Pumps & Motors Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project					
Equipment	\$20,000				
Electrical	\$3,500				
SCADA	\$2,000				
Company time	\$4,000				
Overheads \$4,42					
Total	\$33,925				

Cost Est	imate Sh	eet 2015					Suez Water New York Business Unit # 200
Pr	oject ID:	C16C508					·
Proj	ject Title:	Replace Booste	r Pumps				
Year	Initiated:	2016					
Year i	n-service:	2016					
Major M	ilestones:	2016 - 2016 pr	ojects in se	rvice			
		2017 - 2017 pr	ojects in se	rvice			
		2018 - 2018 pr	ojects in se	rvice			
		2019 - 2019 pr	ojects in se	rvice			
		2020 - 2020 pr	ojects in se	rvice			
UW Project Class	ification:	Pumping					
	2016	2017	2018	2019	2020	Total	
Expenditures	64.0	73.1	86.1	86.3	85.5	395.0	
(Advances/CIAC)						0.0	
Net	64.0	73.1	86.1	86.3	85.5	395.0	
c	Cost Estima	ate Available:	Yes				

Repl Booster pumps Engineering estimate per project per site. Multiple projects are completed					
each year. Costs vary by p	broject				
Equipment	\$20,000				
Electrical	\$3,500				
SCADA	\$2,000				
Company time	\$4,000				
Overheads	\$4,425				
Total	\$33,925				

Cost Est	imate Sh	eet					Suez Water Ne	w York
Pr	oject ID:	2015 C16C509					Business Unit #	200
Proj	ject Title:	SCADA						
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in ser	vice				
		2017 - 2017 pr	ojects in ser	vice				
		2018 - 2018 pro	ojects in ser	vice				
		2019 - 2019 pro	ojects in ser	vice				
UW Project Class	ification:	Pumping						
Priority/(Category:	Other preventio	n of service	deficiencies				
	2016	2017	2018	2019	2020	Total		
Expenditures	165.4	548.3	546.6	547.8	542.9	2,350.9		
(Advances/CIAC)						0.0		
Net	165.4	548.3	546.6	547.8	542.9	2,350.9		

Cost estimate Available Cost estimate not completed yet

Cost Est Pr		eet 2015 C16C511					Suez Water New York Business Unit # 200
Proj	ject Title:	Blaisdale					
Year	Initiated:	2016					
Year i	n-service:	2016					
Major M	ilestones:	Q2 2016 Desig	n and evalu	ation Blaisda	ale improve	ments	
		Q3 Permit					
		Q4 2016 Const	ruction				
		2017 - Permit f	or normal s	upply from	NJ		
UW Project Class	ification:	Water Treatme	nt				
Priority/0	Category:	Infrastructure	Replacemen	t			
	2015	2016	2017	2018	Beyond	Total	
Expenditures		110.3	164.5			274.7	
(Advances/CIAC)						0.0	
Net	0.0	110.3	164.5	0.0	0.0	274.7	
(Cost estim	ate Available	Yes				
Engineering estim	ate for Blais	dale 2016		Engin	eering estir	nate for Blaisdale	2017
	Design	\$15,000		Interstat	e Water tra	nsfer permitting	\$75,000
	Permits	\$5,000				Modeling	\$5,000
	Equipment	\$25,000			Equi	pment upgrades	\$25,000
	Installation	\$35,000				Company Time	\$40,000

\$10,000

\$5,000

\$14,250

\$109,250

Inspection Company Time

Overheads

Total

Overheads

Total

\$21,750

\$166,750

Cost Est	imate Sh	neet					Suez Water N	ew York
Pr	oject ID:	2015 C18C500					Business Unit #	200
Pro	ject Title:	Upgrades at O	perating Fa	cilities				
Year	Initiated:	2018						
Year i	n-service:	2018						
Major M	lilestones:	2018 - 2018 p	rojects in se	ervice				
		2019 - 2019 p	rojects in se	ervice				
		2020 - 2020 p	rojects in se	ervice				
UW Project Class	sification:	Water Treatme	ent					
Priority/	Category:	Infrastructure	Replacemer	nt				
	2017	2018	2019	2020	Beyond	Total		
Expenditures		218.6	219.1	325.7	100.0	863.5		
(Advances/CIAC)						0.0		
Net	0.0	218.6	219.1	325.7	100.0	863.5		

Cost estimate Available Yes

Engineering estimate for various Proje	cts. Multiple
projects completed at different site	s per year
Replace Driveway	\$20,000
Electrical Improvements	\$9,000
Safety Improvements	\$85,000
Replace chemical feed lines and tank	\$100,000
Replace Electrical metering	\$15,000
Air Stripper modifications	\$22,000
Replace VFD	\$25,000
Vault Improvements	\$15,000
Roof Replacement	\$15,000
Contingency	\$30,600
Overheads	\$42,840
Total	\$379,440

Cost Est	imate Sh	eet					Suez Water N	ew York
Pr	oject ID:	2015 C18C501					Business Unit #	200
Proj	ect Title:	Replace PRVs	and Electric	Valves				
Year 1	Initiated:	2018						
Year i	n-service:	2018						
Major M	ilestones:	2018 - 2018 p	orojects in se	ervice				
		2019 - 2019 p	orojects in se	ervice				
		2020 - 2020 p	orojects in se	ervice				
UW Project Class	ification:	Water Treatme	ent					
Priority/C	Category:	Infrastructure	Replacemer	nt				
	2017	2018	2019	2020	Beyond	Total		
Expenditures	0	53.6	54.8	54.3	54.3	216.9		
(Advances/CIAC)						0.0		
Net	0.0	53.6	54.8	54.3	54.3	216.9		
C	ost Estima	te Available:	Yes					

Repl PRVs Engineering estimate per project per site. Multiple projects are completed each						
year. Costs vary by project						
Equipment \$10,000						
Installation	\$10,000					
Company time	\$4,000					
Overheads	\$3,600					
Total	\$27,600					

Cost Est	imate Sh	eet					Suez Water N	ew York
Pr	oject ID:	2015 C19C500					Business Unit #	200
Proj	ect Title:	Electrical Upgra	ades					
Year 1	Initiated:	2019						
Year ii	n-service:	2019						
Major M	ilestones:	2019 - 2019 p	rojects in se	ervice				
		2020 - 2020 p	rojects in se	ervice				
	1							
UW Project Class	ification:	Water Treatme	ent					
Priority/C	Category:	Infrastructure	Replacemen	nt				
r								
	2017	2018	2019	2020	Beyond	Total		
Expenditures (Advances/CIAC)	0		328.7	217.1		545.8 0.0		
(Advances/CIAC)	0.0	0.0	328.7	217.1	0.0	545.8		
	0.0	010	52017	21/11	010	5 1510		
Cost estimate	Available	Cost estimate r	not complete	ed yet				

SUEZ Water New York Case 16-W-0130

Cost Estimate Sheet

Cost Estimate Sheet 2015 Project ID: C16D001	Suez Water New York Business Unit # 200
Project Title: New Hydrants	
Year Initiated: 2016	
Year in-service: 2016	
Major Milestones: 2016 - 2016 projects in service	
2017 - 2017 projects in service	
2018 - 2018 projects in service	
2019 - 2019 projects in service	
UW Project Classification: Distribution	
Priority/Category: Infrastructure Replacement Cost Estimate Available: Yes	
New Hydrant Engineering estimate per job per	
site. Multiple jobs are completed each year.	
Costs vary signifcantly by job	

\$2,000

\$10,000 \$2,000

\$1,000 \$2,250

\$17,250

Material Installation

Paving

Company time Overheads Total

Cost Esti Pr	imate Sh oject ID:	eet 2015 C16D002					Suez Water N Business Unit #	lew York 200
Proj	ject Title:	New Short Main	IS					
Year 1	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in ser	vice				
	[2017 - 2017 pr	ojects in ser	vice				
	[2018 - 2018 pr	ojects in ser	vice				
]	2019 - 2019 pr	ojects in ser	vice				
UW Project Class	ification:	Distribution						
Priority/C	Category:	Infrastructure R	eplacement					
[2016	2017	2018	2019	2020	Total		
Expenditures	3,087.4	3,378.4	3,388.7	3,396.3	3,707.7	16,958.6		
(Advances/CIAC)						0.0		
Net	3,087.4	3,378.4	3,388.7	3,396.3	3,707.7	16,958.6		
C	ost Estima	te Available:	Yes					
ew short main Engine site. Multiple jobs a	•							

New short main Engineering estimate per job per							
site. Multiple jobs are completed each year.							
Costs vary signifcantly by job							
Material	\$500						
Installation	\$10,000						
Paving	\$1,500						
Overheads	\$1,800						
Total	\$13,800						

Cost Estimate Sl Project ID:	2015					Suez Water N Business Unit #	ew York 200
Project Title:	Replace Hydrar	nts					
Year Initiated:	2016						
Year in-service:	2016						
Major Milestones	2016 - 2016 pi	rojects in ser	rvice				
	2017 - 2017 pi	rojects in ser	rvice				
	2018 - 2018 pi	rojects in ser	vice				
	2019 - 2019 pi	rojects in ser	rvice				
UW Project Classification:	Distribution						
Priority/Category:	Infrastructure F	Replacement	:				
2016	2017	2018	2019	2020	Total		
Expenditures 310.3	328.1	327.9	328.7	359.1	1,654.1		
(Advances/CIAC)					0.0		
Net 310.3		327.9	328.7	359.1	1,654.1		
	ate Available:	Yes					
Replace Hydrant Engineering es							
Materia	1						
Installation							
Overheads	. ,						

Cost Est	imate Sh	eet					Suez Water New Yor	K
Pr	oject ID:	2015 C16D502					Business Unit # 200	
Proj	ject Title:	Replace Short	Mains					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pi	rojects in se	rvice				
		2017 - 2017 pi	rojects in se	rvice				
		2018 - 2018 pi	rojects in se	rvice				
		2019 - 2019 pi	rojects in se	rvice				
UW Project Class	ification:	Distribution						
Priority/(Category:	Infrastructure F	Replacement	t				
	2016	2017	2018	2019	2020	Total		
Expenditures	992.4	1,263.1	1,282.1	1,306.8	1,272.2	6,116.6		
(Advances/CIAC)						0.0		
Net	992.4	1,263.1	1,282.1	1,306.8	1,272.2	6,116.6		
C	Cost Estima	ate Available:	Yes					

Repl short main Engineering estimate per job per					
Material \$500					
Installation	\$7,500				
Paving	\$1,500				
Overheads	\$1,425				
Total	\$10,925				

Cost Estimate Sh	eet	Suez Water New York Business Unit # 200	Table of Contents!!A1
Project ID:	C16D100		
Project Title:	New Transmission Mains/Dead End closures		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	2016 - 2016 projects in service		
	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
SW Project Classification:	Transmission & Distribution		
Priority/Category:	Infrastructure Replacement		
Cost Estima	ate Available: Cost estimates done on a per job basis Normal installations are \$225-\$275/foot		

Cost Estimate Sheet 2016 Project ID: C16D300	Suez Water New York Business Unit # 200		
Project Title: Developer Projects]		
Year Initiated: 2016			
Year in-service: 2016			
Major Milestones: 2016 - 2016 projects in service]		
2017 - 2017 projects in service]		
2018 - 2018 projects in service]		
2019 - 2019 projects in service]		
UW Project Classification: Transmission & Distribution]		
Priority/Category: Extensions to new customers]		
Cost Estimate Available: Developer Cost estimates done on a per job	basis		

Cost Estimate Sh Project ID:	2015	Suez Water New York Business Unit # 200
Project Title:	Developer Projects	
Year Initiated:	2016	
Year in-service:	2016	
Major Milestones:	2016 - 2016 projects in service	
[2017 - 2017 projects in service	
[2018 - 2018 projects in service	
[2019 - 2019 projects in service	
UW Project Classification:	Transmission & Distribution	
Priority/Category:	Extensions to new customers	
Cost Estimat	te Available: Developer Cost estimates done on a per job ba	asis

Cost Estimate Sheet 2016 Project ID: C16D600	Suez Water New York Business Unit # 200
Project Title: Main Replacements]
Year Initiated: 2016	
Year in-service: 2016	
Major Milestones: 2016 - 2016 projects in service]
2017 - 2017 projects in service]
2018 - 2018 projects in service]
2019 - 2019 projects in service]
UW Project Classification: Transmission & Distribution]
Priority/Category: Infrastructure Improvements]
Cost Estimate Available: Cost estimates done on a per job basis	

Normal installations are \$225-\$275/foot

Cost Estimate Sh Project ID:	2016	Suez Water New York Business Unit # 200	Table of Contents!A1
Project Title:	Highway Projects		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	2016 - 2016 projects in service		
	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
UW Project Classification:	Transmission & Distribution		
Priority/Category:	Highway Projects		
Cost Estimat	e Available: Cost estimates done on a per job basis		

Cost estimates done on a per job basis Installation costs vary by job (realigning main under drainage pipe or full replacement)

Cost E	stimate S	6 2016					Suez Water No Business Unit #	ew York 200
Pr	oject ID:	C16D503						
Pro	ject Title:	DMAs						
Year	Initiated:	2015						
Year i	n-service:	2016						
Major M	lilestones:	2016 - 2016	projects in s	ervice				
		2017 - 2017	projects in s	ervice				
		2018 - 2018	projects in s	ervice				
UW Project Class	sification:	Transmission	& Distributic	on				
Priority/0	Category:	Infrastructure	Improveme	ents				
	2015	2016	2017	2018	2019	Total		
Expenditures	100.0	3,307.9	3,289.6	3,279.4	2,191.2	12,168.1		
Advances/CIAC)						0.0		

Cost Estimate Available: Yes

3,307.9

3,289.6

3,279.4

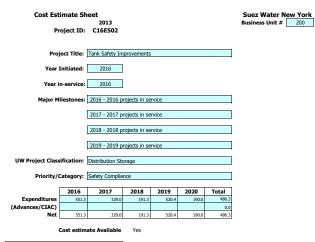
2,191.2

12,168.1

project per meter site. Mul	Install DMA Engineering estimate per project per meter site. Multiple meter sites are completed each year. Costs vary					
significantly by project due	e to size of					
mains and complexity of in	nstallation					
Design	\$15,000					
Permits	\$5,000					
Equipment \$45,000						
Installation \$75,00						
Company time \$10,000						
Inspection	\$15,000					
Contingency \$24,750						
Overheads	\$19,500					
Total	\$209,250					

Cost Estimate Sh Project ID:	2016	Suez Water New York Business Unit # 200	Table of Contents!A1
Project Title:	Pressure Reduction		
Year Initiated:	2015		
Year in-service:	2016		
Major Milestones:	2016 Design		
	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
UW Project Classification:	Transmission & Distribution		
Priority/Category:	Infrastructure Improvements		
Cost Estimat	te Available: Cost estimates done on a per job basis		

Installation costs vary by job (installing pressure reducing valve vaults vs VFDs onn wells)



Engineering estimate for various tank safety improvements. Multiple projects completed at each tank and multiple tanks can be painted per						
vear						
Safety imp	\$20,000					
Additiona	\$15,000					
Structural imp	\$50,000					
0	\$8,500					
	\$11,900					
	Total	\$105,400				

ank Safety Improvements This is to perform structural and safety upgrades after tank inspections have been
ompleted to improve our tank safety and reliability.

UWNY has 16 tanks in the system. Either after inspection or prior to painting, various safety upgrades are generally performed (e.g., replace ladder components, add safety/security features to ladders, alternate access hatch, replace vening screens, etc...). Since 9/11/01, it is apparent that many of SWNY's tanks need security upgrades to protect the system. SWNY will identify about 2 tanks per year to provide these upgrades. Individual CEAs will be prepared and submitted for approval prior to each purchase and replacement **2015 rank Painting and Safety improvements:** In 2016 the Rosam Road Tank in Thells, the LDF backwash tank and Clausland are scheduled for painting and safety improvements. **2017 Tank Painting and Safety improvements:** In 2018 **Tank Painting and Safety improvements:** In 2018 **Tank Painting and Safety improvements:** In 2018 **Tank Painting and Safety improvements**. **2018 Tank Painting and Safety improvements** In 2018 **the Valley Cottage Elevated tank is scheduled for painting and safety improvements. 2019 Tank Painting and Safety improvements** In 2019 **the holl softety improvements** In 2020 **the holl softety improvements** In 2020

Cost Est	imate Sh	eet 2015						Water N ss Unit #	 York 00
Pr	oject ID:	C16E505							
Proj	ject Title:	Indian Kill Valv	e Vault and	Road rehab)				
Year	2016								
Year i	n-service:	2016							
Major M	ilestones:	2016 construction							
UW Project Class	sification:	Distribution Sto	orage						
Priority/0	Category:	Prevention of s	ervice defic	iencies					
	2016	2017	2018	2019	2020	2021	Total		
Expenditures	33.0						33.0		
(Advances/CIAC)							0.0		
Net	33.0	0.0	0.0	0.0	0.0	0.0	33.0		
c	cost Estima	te Available:	Yes						

IK Valve Vault Engineering Estimate					
Material	\$5,000				
Installation	\$22,000				
Company time	\$1,500				
Overheads	\$4,275				
Total	\$32,775				

Cost Est		Water M								
Pr	oject ID:	2015 C16E503					Busine	ss Unit #	20	0
Proj	ject Title:	Sterling Tank								
Year	Initiated:	2016								
Year i	n-service:	2017								
Major M	ilestones:	2016 Design ar	nd permitting							
		2017 Q 1 bid w	ork							
		2017 Q3 start o	construction							
		2018 Complete	Construction							
UW Project Class	ification:	Distribution Sto	rage							
Priority/0	Category:	Prevention of s	ervice deficie	ncies						
	2016	2017	2018	2019	2020	2021	Total			
Expenditures	110.3	548.3	710.5		0.0		1,369.1			
(Advances/CIAC) Net	110.3	548.3	710.5	0.0	0.0	0.0	0.0 1,369.1			
		te Available:		5.0	0.0	5.0	1,509.1			

Engineering estimate for Sterling Tank					
Design	\$85,000				
Permits	\$15,000				
Survey	\$5,000				
Material	\$450,000				
Installation	\$600,000				
Inspection	\$50,000				
Company Time	\$5,000				
Overheads	\$181,500				
Total	\$1,391,500				

Cost Est	imate Sh	eet					Suez	Water N	ew York
Pr	oject ID:	2015 C16E500					Busine	ss Unit #	200
	oject ib.	CIULSUU							
Proi	iect Title:	Haverstraw Ta	nk						
-									
Year 1	Initiated:	2016							
Year i	n-service:	2020							
Major M	ilestones:	2013 Start Des	ign						
		2016-2017 Con	nplete Desigr	i, obtain Pla	nning Board	I and DOH a	pproval		
		2018 Construct	ion						
		2019 - Comple	te constructio	n In-Servic	e				
		2019 Comple			C				
UW Project Class	ification:	Distribution Sto	orage						
Priority/C	Category:	Prevention of s	ervice deficie	ncies					
ī	2016	2017	2010	2010	2020	2024	T		
Expenditures	2016	2017 109.7	2018	2019 1,623.2	2020	2021	Total		
(Advances/CIAC)	110.3	109.7	2,424.9	1,023.2	0.0		4,268.0 0.0		
Net	110.3	109.7	2,424.9	1,623.2	0.0	0.0	4,268.0		
			-, -=;	/			/		
С	ost Estima	te Available:	Yes						

Engineering estimate for 3 MG Haverstraw					
Design	\$200,000				
Permits	\$15,000				
Survey	\$5,000				
Material	\$900,000				
Installation	\$2,500,000				
Inspection	\$75,000				
Company Time	\$15,000				
Overheads	\$556,500				
Total	\$4,266,500				

	Cost Est Pr		eet 2015 C16E500					Suez Water New York Business Unit # 200
	Proj	ect Title:	2 MG Haverstra	w Tank (Monse	ey)			
	Year	Initiated:	2016					
	Year i	n-service:	2020					
	Major M	ilestones:	2013 Start Desi	gn				
			2016-2018 Com	nplete Design,	obtain Planr	ing Board a	nd DOH app	proval
2019 Construction								
			2020 - Complet	e construction,	, In-Service			
UW Pr	oject Class	ification:	Distribution Sto	rage				
	Priority/0	Category:	Prevention of se	ervice deficienc	cies			
	ĺ	2016	2017	2018	2019	2020	2021	Total
Ехр	enditures	220.5	219.3	218.6	38.6	2,232.0		2,929.0
(Advanc	es/CIAC)							0.0
	Net	220.5	219.3	218.6	38.6	2,232.0	0.0	2,929.0
	с	ost Estima	te Available:	Yes				
	Engine	ering estim	ate for 3 MG Ha	verstraw				
		-	Design	\$100,000				

Engineering estimate for 3 MG Haverstraw					
\$100,000					
\$15,000					
\$5,000					
\$600,000					
\$1,750,000					
\$60,000					
\$15,000					
\$381,750					
\$2,926,750					

Cost Est		Suez Water N	ew York					
Pr	oject ID:	2015 C20E501					Business Unit #	200
Proj	ect Title:	Remote Motor	ized Valves	at Tanks				
Year	Initiated:	2020						
Year i	n-service:	2020						
Major M	ilestones:	2020 - 2020 p	projects in se	ervice				
		2021 - 2021 p	projects in se	ervice				
	ĺ							
UW Project Class	ification:	Water Storage	:					
Priority/C	Category:	Infrastructure	Replacemer	nt				
	2017	2018	2019	2020	Beyond	Total		
Expenditures	0			108.6	108.6	217.1		
(Advances/CIAC)						0.0		
Net	0.0	0.0	0.0	108.6	108.6	217.1		
C	ost Estima	te Available:	Yes					

Remote Valve Engineering estimate					
Equipment	\$25,000				
Installation	\$35,000				
Inspection	\$7,500				
Electrical	\$5,000				
SCADA	\$7,500				
Company time	\$4,000				
Contingency	\$8,400				
Overheads	\$12,600				
Total	\$105,000				

SUEZ Water New York Case 16-W-0130

Cost Estimate Sheet

Cost Estimate Sheet						Suez Water N		
Pr	oject ID:	2015 C16F001					Business Unit #	200
Proj	ect Title:	New Domestic S	Services					
Year 1	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in sei	rvice				
		2017 - 2017 pr	ojects in sei	rvice				
		2018 - 2018 pr	ojects in sei	rvice				
	ĺ	2019 - 2019 pr	ojects in ser	rvice				
UW Project Class	ification:	Distribution						
Priority/C	Category:	New Customer	Connection					
[2016	2017	2018	2019	2020	Total		
Expenditures	477.4	614.1	642.8	676.5	704.0	3,114.8		
(Advances/CIAC)						0.0		
Net	477.4	614.1	642.8	676.5	704.0	3,114.8		
c	ost Estima	ate Available:	Yes					

New domestic service Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job Material \$500 Installation \$5,500 Paving \$750 Overheads \$1,013 **Total \$7,763**

Cost Est	imate Sh	eet					Suez Water Ne	w York
Pr	oject ID:	2015 C16F003					Business Unit #	200
Pro	ject Title:	New Fire Servic	es					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major Milestones: 2016 - 2016 projects in service								
2017 - 2017 projects in service								
		2018 - 2018 pr	ojects in ser	rvice				
		2019 - 2019 pr	ojects in ser	rvice				
UW Project Class	sification:	Distribution						
Priority/0	Category:	New Customer	Connection					
	2016	2017	2018	2019	2020	Total		
Expenditures	462.4	482.8	505.5	531.9	553.4	2,536.0		
(Advances/CIAC)						0.0		
Net	462.4	482.8	505.5	531.9	553.4	2,536.0		
C	Cost Estima	ate Available:	Yes					

 New fire service Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job

 Material
 \$2,000

 Installation
 \$6,500

 Paving
 \$750

 Overheads
 \$1,388

 Total
 \$10,638

Cost Estimate Sheet 2015							Suez Water New York Business Unit # 200
Pr	oject ID:	C16F501					
Proj	ject Title:	Replace Service	S				
Year	Initiated:	2016					
Year i	n-service:	2016					
Major Milestones: 2016 - 2016 projects in service							
		2017 - 2017 projects in service					
		2018 - 2018 pr	ojects in ser	rvice			
		2019 - 2019 pr	ojects in sei	rvice			
UW Project Class	ification:	Distribution					
Priority/C	Category:	Infrastructure R	teplacement				
	2016	2017	2018	2019	2020	Total	
Expenditures	1,323.2	1,381.6	1,442.9	1,424.3	1,520.0	7,092.0	
(Advances/CIAC)						0.0	
Net	1,323.2	1,381.6	1,442.9	1,424.3	1,520.0	7,092.0	
c	Cost Estima	ate Available:	Yes				

Rerp service Engineering estimate per job per						
site. Multiple jobs are completed each year.						
Costs vary significantly by job						
Material	\$1,000					
Installation	\$7,500					
Paving	\$750					
Overheads	\$1,388					
Total	\$10,638					

Cost Estimate Sh Project ID:	2015	Suez Water New York Business Unit # 200	Table of Contents!A1
Project Title:	New Meters		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	2016 - 2016 projects in service		
	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
UW Project Classification:	Customer Meters		
Priority/Category:	New Customer Connection		
Cost Estim	ate Available: Yes		
	Please refer to IR-75		

New Customer Meters - This is to purchase and install approximately 660 new customer meters in 2016.

This project would provide approximately 660 new meters for the anticipated new customer connections next year. SWNY allows lock-wing meter setups where multiple meters can be installed off a single service line.

Based on cost history, each new meter installation would cost about \$130 including materials and labor charges. There have been several large developments on line in recent years and this trend is expected to continue for the next few years.

Cost Estimate Sh Project ID:	2015	Suez Water New York Business Unit # 200	Table of Contents!!A1
Project Title:	New RFs		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	2016 - 2016 projects in service		
	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
UW Project Classification:	Customer Meters		
Priority/Category:	New Customer Connection		
Cost Estima	ate Available: Yes		
	Please refer to IR-75		

Cost Estimate Sh Project ID:	2015	Suez Water New York Business Unit # 200	Table of Contents!!A1
Project Title:	Replace Meters		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	2016 - 2016 projects in service		
	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
UW Project Classification:	Customer Meters		
Priority/Category:	Infrastructure Replacement		
Cost Estima	ate Available: Yes Please refer to IR-75		

Cost Estimate Sh Project ID:	2015	Suez Water New York Business Unit # 200	Table of Contents!!A1
Project Title:	Replace RFs		
Year Initiated:	2016		
Year in-service:	2016		
Major Milestones:	2016 - 2016 projects in service		
I	2017 - 2017 projects in service		
	2018 - 2018 projects in service		
	2019 - 2019 projects in service		
UW Project Classification:	Customer Meters		
Priority/Category:	Infrastructure Replacement		
Cost Estima	ate Available: Yes Please refer to IR-75		

Cost Esti Pr		eet 2015 C16G503					Suez Water New York Business Unit # 200
Proj	ect Title:	Fixed Meter Sys	tem				
Year Initiated: 2016							
Year in-service: 2016							
Major Milestones: 2015 Complete Design and start Installation							
2016 Install collectors and SWNY assets							
		2017 Install col	lectors and	O&R assets	if needed		
2018 Complete installations							
2019 - If needed, install additional collectors							
UW Project Class	UW Project Classification: Customer Meters						
	2015	2016	2017	2018	2019	Total	
Expenditures	275.7	274.1	273.3			823.1	
(Advances/CIAC)						0.0	
Net	275.7	274.1	273.3	0.0	0.0	823.1	

Fixed meter system Engineering estimate per job per site. Multiple jobs are completed each year.					
Material	\$45,000				
Installation	\$30,000				
Company time	\$5,000				
Overheads	\$12,000				
Total	\$92,000				

Cost Est	imate Sh	eet					Suez Water No	ew York
Pr	oject ID:	2015 C16G504					Business Unit #	200
Proj	ject Title:	Production met	ers					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	rojects in se	rvice				
		2017 - 2017 pr	rojects in se	rvice				
		2018 - 2018 pr	rojects in se	rvice				
		2019 - 2019 pr	rojects in se	rvice				
UW Project Class	ification:	Water Treatme	nt					
Priority/0	Category:	Infrastructure F	Replacemen	t				
	2016	2017	2018	2019	2020	Total		
Expenditures	55.1	82.2	82.0	82.2	108.6	410.1		
(Advances/CIAC)						0.0		
Net	55.1	82.2	82.0	82.2	108.6	410.1		

1

Fixed meter system Engineering estimate per job per site. Multiple jobs are completed each year.						
Material	\$8,000					
Installation	\$12,000					
Company time	\$2,000					
Overheads	\$3,300					
Total	\$25,300					

Cost Est	imate Sh						Suez Water N	
Pr	oject ID:	2015 C16J101					Business Unit #	200
Pro	ject Title:	Water level mor	nitoring					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in ser	rvice				
		2017 - 2017 pr	ojects in ser	rvice				
		2018 - 2018 pr	ojects in sei	rvice				
		2019 - 2019 pr	ojects in ser	rvice				
UW Project Class	ification:	Water Treatmer	nt					
Priority/0	Category:	Infrastructure R	eplacement	:				
	2016	2017	2018	2019	2020	Total		
Expenditures	25.6	26.4	56.2	17.3	17.1	142.6		
(Advances/CIAC)						0.0		
Net	25.6	26.4	56.2	17.3	17.1	142.6		
(Cost Estima	ate Available:	Yes					

 Water level monitoring Engineering estimate per job per site. Multiple jobs are completed each year.

 Material
 \$2,500

 Installation
 \$5,000

 Company time
 \$1,000

 Overheads
 \$1,275

 Total
 \$9,775

Cost Est	imate Sh	eet					Suez Water N	ew York
Pr	oject ID:	2015 C16J100					Business Unit #	200
Proj	ject Title:	GIS						
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in se	rvice				
		2017 - 2017 pr	ojects in se	rvice				
		2018 - 2018 pr	ojects in se	rvice				
		2019 - 2019 pr	ojects in se	rvice				
UW Project Class	ification:	IT						
Priority/0	Category:	Infrastructure R	eplacement	t				
	2016	2017	2018	2019	2020	Total		
Expenditures	21.6	22.0	21.9	21.9	27.1	114.6		
(Advances/CIAC)						0.0		
Net	21.6	22.0	21.9	21.9	27.1	114.6		

Cost Estimate Available: Costs are assoiciated with software charges

	timate Sh Project ID:	2015					Suez Water New York Business Unit # 200
Pr	oject Title:	SCADA Connect	ions				
Yea	r Initiated:	2016					
Year	in-service:	2016					
Major	Milestones:	2018 - 2018 pr	ojects in sei	rvice			
		2019 - 2019 pr	ojects in sei	rvice			
UW Project Clas Priority,		IT Infrastructure R	eplacement				
	2016	2017	2018	2019	2020	Total	
Expenditures	-	-	101.7	104.1		205.7	
	Cost Estim	ate Available:	Yes				
		ion Engineering					
per job		Itiple jobs are co	mpleted				
	ead	ch year.	Ć15 000				
		Material Electrical	\$15,000 \$10,000				
		nstrumentation	\$10,000				
	JCADA II	Construction	\$45,000				
		Paving	\$5,000				

Paving Company time

Overheads

\$3,000

\$13,200 Total \$101,200

	imate Sh oject ID:	2015					Suez V Business	 ew York 200
Pro	ject Title:	Blue Lake SCAL	A					
Year	Initiated:	2017						
Year i	n-service:	2017						
Major M	lilestones:	2017 - Constru	ction					
UW Project Class	sification:	IT						
Priority/	Category:	Productivity Im	provement					
	2015	2016	2017	2018	2019	Total		
Expenditures			109.7			109.7		
(Advances/CIAC)						0.0		
(Cost Estima	ate Available:	Yes					

Blue Lake SCADA Engineering estimate per job						
Material	\$15,000					
Electrical	\$10,000					
SCADA Instrumentation	\$10,000					
Construction	\$45,000					
Paving	\$5,000					
Company time	\$3,000					
Overheads	\$13,200					
Total	\$101,200					

Cost Est	Suez Water New York							
Pr	oject ID:	2015 C16J103					Business Unit #	200
Proj	ject Title:	Maplebrook SC	CADA					
Year	Initiated:	2018]					
Year i	n-service:	2018]					
Major M	ilestones:	2018 construct	ion					
UW Project Class	ification:	IT						
Priority/0	Category:	Productivity Im	provement					
	2015	2016	2017	2018	2019	Total		
Expenditures				164.0		164.0		
(Advances/CIAC)						0.0		

Maplebrook SCADA Engineering estimate per					
job per site. Multiple jobs are completed each					
year.					
Material	\$20,000				
Electrical	\$25,000				
SCADA Instrumentation	\$15,000				
Construction	\$65,000				
Paving	\$10,000				
Company time	\$5,000				
Overheads	\$21,000				
Total	\$161,000				

	imate Sh oject ID:	eet 2015 C17J101					Suez Water New Y Business Unit # 20	-
Proj	ject Title:	IT Server						
Year	Initiated:	2017]					
Year i	n-service:	2017]					
Major M	ilestones:	2017 - purchas	e equipmen	t and install				
	[
UW Project Class	ification:	IT						
Priority/0	Category:	Productivity Im	provement					
	2015	2016	2017	2018	2019	Total		
Expenditures			30.0			30.0		
(Advances/CIAC)						0.0		

Engineering estimate						
Equipment	\$25,000					
Company time	\$1,000					
Overheads	\$3,900					
Total	\$29,900					

Cost Est	imate Sh	eet 2015					Suez Water N Business Unit #	ew York 200
Pi	oject ID:	18J500 route	er					·•
Pro	ject Title:	Router						
Year	Initiated:	2018						
Year i	n-service:	2017						
Major M	lilestones:	2017 - purchas	e equipment	t and install				
UW Project Class	ification:	IT						
Priority/	Category:	Productivity Im	provement					
	2015	2016	2017	2018	2019	Total		
Expenditures				16.4		16.4		
(Advances/CIAC)						0.0		
(Cost Estima	ate Available:	Yes					
	Enginee	ring estimate						

\$13,800

\$500

\$2,145

\$16,445

Equipment Company time

Overheads

Total

Cost Est	imate Sh	eet 2015					Suez Water N Business Unit #	ew York 200
Pr	oject ID:	C16J501						·
Proj	ject Title:	Printers and Plo	otters					
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in ser	vice				
		2017 - 2017 pr	ojects in ser	vice				
		2018 - 2018 pr	ojects in ser	vice				
		2019 - 2019 pr	ojects in ser	vice				
UW Project Class	ification:	IT						
Priority/0	Category:	Infrastructure R	eplacement					
	2016	2017	2018	2019	2020	Total		
Expenditures	12.1	13.2	14.2	15.3	16.3	71.1		
(Advances/CIAC)						0.0		
Net	12.1	13.2	14.2	15.3	16.3	71.1		
c	Cost Estima	ate Available:	Yes					

Engineering estimate	
Equipment	\$11,000
Overheads	\$1,650
Total	\$12,650

Cost Est	imate Sh	eet 2015					Suez Water New York Business Unit # 200
Pr	oject ID:	C18J101					
Proj	ect Title:	Hydraulic Mode	ling update				
Year 1	Initiated:	2018					
Year i	n-service:						
Major M	ilestones:	2018 - Update	hydraulic mo	odel			
	ļ						
	ا ارد در در ا						
UW Project Class	ification:	11					
Priority/C	Category:	Infrastructure					
	2016	2017	2018	2019	2020	Total	
Expenditures			150.0			150.0	
(Advances/CIAC)						0.0	
Net	0.0	0.0	150.0	0.0	0.0	150.0	
c	ost Estima	ate Available:	Yes				

Engineering estimate	
Consulting	\$115,000
Company time	\$15,000
Overheads	\$19,500
Total	\$149,500

SUEZ Water New York Case 16-W-0130

Cost Estimate Sheet

		imate Sh oject ID:	eet 2015 C16K100					Suez Water New York Business Unit # 200
	Proj	ject Title:	Leak Detection	Equipment				
	Year	Initiated:	2016					
	Year i	n-service:	2016					
	Major M	ilestones:	2018 - Purchas	se equipmer	nt			
UW Pr	oject Class							
	Priority/0	Category:	NRW Reduction	1				
		2016	2017	2018	2019	2020	Total	
Exp	enditures		-	62.3		73.8	136.1	
(Advanc	es/CIAC)						0.0	
	Net	0.0	0.0	62.3	0.0	73.8	136.1	
	c		ate Available:	Yes				
		Engineer	ing estimate					
			Equipment	\$54,000				
			Overheads	\$8,100				
			Total	\$62,100				

Table of Contents!A1

Leak Detection - Purchase leak detection equipment

This projects is to purchase acoustic leak monitoring / leak locating equipment to assist our distribution staff in locating system leaks on mains, valves, hydrants and services. Such leak locating efforts will ultimately help to drive both non-revenue producing and unaccounted for water levels downward.

We will purchase two sets of acoustical monitoring equipment every other year, or as the budget allows. This equipment will allow UWNY to drive and listen to long lengths of pipe (1-2 miles).

Cost Est	imate Sh	eet					Suez Water Ne	w York
Pr	oject ID:	2015 C16K101					Business Unit #	200
Proj	ject Title:	ArcFlash						
Year	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 pr	ojects in se	rvice				
		2017 - 2017 pr	ojects in se	rvice				
		2018 - 2018 pr	ojects in se	rvice				
		2019 - 2019 pr	ojects in se	rvice				
UW Project Class	ification:	Equipment						
Priority/C	Category:	Safety and Secu	urity					
	2016	2017	2018	2019	2020	Total		
Expenditures	27.6	27.4	27.3	27.4	27.1	136.8		
(Advances/CIAC)						0.0		
Net	27.6	27.4	27.3	27.4	27.1	136.8		

ArcFlash Engineering estimate per jo Multiple jobs are completed each	
Material	\$10,000
Electrical	\$12,000
Company time	\$1,500
Overheads	\$3,525
Total	\$27,025

Cost Est	imate Sh	eet 2015						Water N ss Unit #	_	York 200
Pr	oject ID:	C16K102					busine	ss onit #		200
Pro	ject Title:	Safety and Sec	urity							
Year	Initiated:	2016								
Year i	n-service:	2016								
Major M	ilestones:	2016 - 2016 pi	rojects in se	ervice						
		2017 - 2017 pr	rojects in se							
		2018 - 2018 pr	rojects in se	ervice						
		2019 - 2019 pi	rojects in se	ervice						
UW Project Class	ification:	General Plant								
Priority/0	Category:	Safety complian	nce							
		2016	2017	2018	2019	2020	Total			
Expenditures		48.7	50.1	48.6	82.2	81.4	311.1			
(Advances/CIAC)							0.0			
Net		48.7	50.1	48.6	82.2	81.4	311.1			
c	Cost Estima	ate Available:	Yes							

Safety Engineering estimate per	Safety Engineering estimate per job per site.					
Multiple jobs are completed e	each year.					
Fencing	\$15,000					
Cameras	\$5,000					
Access locks	\$3,500					
Lighting	\$5,000					
Replace doors	\$2,000					
replace windows	\$2,000					
Company time	\$5,000					
Overheads	\$4,875					
Total	\$42,375					

	imate Sh oject ID:	eet 2015 C16K103					Suez Water New York Business Unit # 200
Proj	ect Title:	Lake DeForest I	Reservoir fe	encing			
Year	initiated:	2016					
Year i	n-service:	2016					
Major M	ilestones:	2016 - 2016 pr	ojects in se	ervice			
		2017 - 2017 pr	ojects in se	ervice			
		2018 - 2018 pr	ojects in se	ervice			
		2019 - 2019 pr	ojects in se	ervice			
UW Project Class	ification:	General Plant					
Priority/C	Category:	Safety compliar	nce				
	2016	2017	2018	2019	2020	Total	
Expenditures	55.1	54.8	54.7	54.8	54.3	273.7	
(Advances/CIAC)				54.0	54.2	0.0	
Net	55.1	54.8	54.7	54.8	54.3	273.7	

Engineering estimate	
Fence	\$48,000
Overheads	\$7,200
Total	\$55,200

	imate Sh oject ID:	eet 2015 C16K104						Water New South South States South States St	York .00
Proj	ject Title:	New Tools and	Equipment						
Year	Initiated:	2016							
Year i	n-service:	2016							
Major M	ilestones:	2016 - 2016 p	rojects in se	rvice					
		2017 - 2017 p	rojects in se	rvice					
		2018 - 2018 p	rojects in se	rvice					
		2019 - 2019 p	rojects in se	rvice					
UW Project Class	ification:	Equipment							
Priority/0	Category:	Tools and Equi	pment						
	2016	2017	2018	2019	2020	Beyond	Total		
Expenditures	14.6	20.1	21.9	21.9	21.7	20.0	120.1		
(Advances/CIAC)							0.0		
Net	14.6	20.1	21.9	21.9	21.7	20.0	120.1		
c	ost Estima	te Available:	Yes						

Engineering estimate	
Equipment	\$18,000
Overheads	\$2,700
Total	\$20,700

Cost Est	imate Sh	eet					Suez Water N	ew York
Pr	oiect ID:	2015 C16K500					Business Unit #	200
	oject ID.	CIONSOU						
Proi	ect Title:	Building Improv	/ements					
,			Cincino					
Year 1	Initiated:	2016						
Year ii	n-service:	2016						
Major M	ilactonacı	2016 - 2016 p	rojects in co	nuico				
мајог м	liestones:	2010 - 2010 pi	ojects in se	IVICE				
		2017 - 2017 p	rojects in se	rvice				
	1	2018 - 2018 p	roiects in se	rvice				
		2019 - 2019 p	rojects in se	rvice				
UW Project Class	ification:	General Plant						
	-	Compliance						
Priority/C	Lategory:	compliance						
	2016	2017	2018	2019	2020	Total		
Expenditures	48.6	75.2	74.3	76.7	108.6	383.4		
(Advances/CIAC)			_			0.0		
Net	48.6	75.2	74.3	76.7	108.6	383.4		
с С	ost Estima	te Available:	Vac					
C		te Available.	103					

Building Improvement Engineering estimate per					
job per site. Multiple jobs are co	job per site. Multiple jobs are completed each				
year.					
doors	\$2,000				
railing	\$10,000				
paving	\$15,000				
fencing	\$15,000				
Company time	\$5,000				
Overheads	\$7,050				
Total	\$54,050				

Cost Est	Suez Water N							
Pr	oiect ID:	2015 C16K502					Business Unit #	200
	- ,							
Proj	ect Title:	Replace tools a	nd Equipme	ent				
Year 1	Initiated:	2016						
Year i	n-service:	2016						
Major M	ilestones:	2016 - 2016 p	rojects in se					
		2017 - 2017 p	rojects in se					
		2018 - 2018 p	rojects in se					
		2019 - 2019 p	rojects in se	ervice				
UW Project Class	ification:	Equipment						
Priority/C	Category:	Tools and Equi	pment					
	2016	2017	2018	2019	2020	Total		
Expenditures	29.8	36.2	39.4	40.5	41.3	187.1		
(Advances/CIAC)						0.0		
Net	29.8	36.2	39.4	40.5	41.3	187.1		
c	ost Estima	te Available:	Yes					

Engineering estimate				
Equipment	\$30,000			
Overheads	\$4,500			
Total	\$34,500			

	imate Sh roject ID:	eet 2015 C17K101					Suez Water New York Business Unit # 200
Pro	ject Title:	Meter shop stor	rage shed				
Year	Initiated:	2018					
Year i	n-service:	2018					
Major M	lilestones:	2018 Purchase	and Install				
UW Project Class	sification:	General Plant					
Priority/	Category:	Infrastructure					
	2015	2016	2017	2018	2019	Total	
Expenditures				25.1		25.1	
(Advances/CIAC)						0.0	
(Cost Estima	ate Available:	Yes				
Meter building E	nginooring	ostimata					
wieter building c	Permitting	\$2,000					
	Survey	\$2,000					
	material	\$1,500					
	Install	\$10,000					
Cor	npany time	\$1,000					
601	Overheads	\$3,375					
	Total	\$25,875					

	imate Sh oject ID:	eet 2015 C18K500					Suez Water New York Business Unit # 200
Pro	ject Title:	West Nyack Bui	Iding Impro	vements			
Year	Initiated:	2017					
Year i	n-service:	2018					
Major M	ilestones:	2017 permit ner	w access roa	ad			
		je area					
		2019 complete	storage area				
		Construct confe	erence area				
UW Project Class	ification:	General Plant					
Priority/0	Category:	Compliance					
	2017	2018	2019	2020	2021	Total	
Expenditures	54.8	218.6	328.7	108.6		710.7	
(Advances/CIAC)						0.0	
Net	54.8	218.6	328.7	108.6	0.0	710.7	
c	Cost Estima	ate Available:	Yes				

Building Improvement Engineerin	g estimate per
job per site.	
Design	\$20,000
Permitting	\$5,000
Survey	\$3,500
Construction/clearing	\$155,000
Paving	\$45,000
Company time	\$10,000
Overheads	\$35,775
Total	\$274,275

Cost Est	imate Sh	eet					Suez Water N	ew York
Pr	oject ID:	2015 C19k500					Business Unit #	200
Proj	ject Title:	Underground V	ault Improv	rements				
Year	Initiated:	2018						
Year i	n-service:	2018						
Major M	ilestones:	2018 Assess va	aults					
		2019 - 2019 p	rojects in se	ervice				
		2020 - 2020 p	rojects in se	ervice				
UW Project Class	ification:	General Plant						
Priority/C	Category:	Safety						
	2017	2018	2019	2020	Beyond	Total		
Expenditures	0	53.6	54.8	54.3		162.6		
(Advances/CIAC)						0.0		
Net	0.0	53.6	54.8	54.3	0.0	162.6		

Undergound Engineering estimat	e per job per
site.	
Ladder up	\$3,500
Structural Improvement	\$10,000
Ventalation	\$10,000
Hoist	\$20,000
hatch	\$5,000
Company time	\$5,000
Overheads	\$8,025
Total	\$61,525

Cost Estimate Sheet	Suez Water New York
2015	Business Unit # 200
Project ID: C16M100	
Project Title: UIRP and Water supply design	
Year Initiated: 2016	
Year in-service:	
Major Milestones: 2016 - Design 2016 and beyond projects	
2017 - Design 2017 and beyond projects	
2010 Design 2019 and havend projects	
2018 - Design 2018 and beyond projects	
UW Project Classification: Preliminary Design	
Priority/Category: Various	

	2016	2017	2018	2019	2020	Total
Expenditures	97.4	100.2	107.1	109.6	108.6	522.8
(Advances/CIAC)						0.0
Net	97.4	100.2	107.1	109.6	108.6	522.8

Engineering estimate	
Consulting	\$80,000
Company time	\$10,000
Overheads	\$13,500
Total	\$103,500

Cost Estimate Sł Project ID:	2015	Suez Water New York Business Unit # 200
Project Title:	Ramapo River Supply Optimization	
Year Initiated:	2016	
Year in-service:		
Major Milestones:	2016 Begin Groundwater/surface water model	
	2017 Compplete model and develop wellfield optimization tool	
UW Project Classification:	Preliminary Design	
Priority/Category:	Supply	

	2016	2017	2018	2019	2020	2021	Total
Expenditures	330.8	548.3					879.1
(Advances/CIAC)							0.0
Net	330.8	548.3	0.0	0.0	0.0	0.0	879.1

Cost estimate Available See June 2015 Report on the Feasibility of Incremental

Water Supply Projects and Conservation Opportunities in Rockland County, New York

Cost Estimate Sł Project ID:	2015	Suez Water New York Business Unit # 200
Project Title:	Ramapo River Supply Optimization	[
Year Initiated:	2016	
Year in-service:		
Major Milestones:	2016 Begin Groundwater/surface water model	[
	2017 Compplete model and develop wellfield optimization tool	
UW Project Classification:	Preliminary Design	[
Priority/Category:	Supply	[

	2016	2017	2018	2019	2020	2021	Total
Expenditures			546.6	1,249.3	4,257.1	2,200.0	8,253.0
(Advances/CIAC)							0.0
Net	0.0	0.0	546.6	1,249.3	4,257.1	2,200.0	8,253.0

Cost estimate Available See June 2015 Report on the Feasibility of Incremental

Water Supply Projects and Conservation Opportunities in Rockland County, New York

Cost Est	imate Sh	eet 2015					Suez Water New York Business Unit # 200
Pr	oject ID:	C17M100					
Proj	ject Title:	System Surge A	Analysis				l
Year	Initiated:	2018					
Year i	n-service:						
Major M	ilestones:	2018 - Perform	Surge Analy	ysis			
UW Project Class	ification:	Preliminary Des	sign				
Priority/C	Category:	Infrastructure					
	2016	2017	2018	2019	2020	Total	
Expenditures			99.5			99.5	
(Advances/CIAC) Net			00 5	0.0	0.0	0.0	
Net	0.0	0.0	99.5	0.0	0.0	99.5	

Engineering estimate	
Consulting	\$76,500
Company time	\$10,000
Overheads	\$12,975
Total	\$99,475

EXHIBIT --- (DPD-3) RECOMMENDED CAPEX PLAN Exhibit (DPD-3)

RECOMMENDED CAPEX PROGRAM Case 16-W-0130

Project Title	Purpose	Category	Priority	2017 Cost	Total Cost	t Cost Estimate	Benefit/Cost Analysis Recommendation Reference Page MC-10 Attach B	Recommendation	Reference Page MC-10 Attach R
Blue Lake Demand	Pilot Plant	Water Supply	Compliance	\$ 2,000	s	37,110 Not Available	Not Available	Include	2
Blue Lake Dam	Agreement with Watchtower	Water Supply	Complaince		ŝ		Not Available	include	e
LDF Dam Stability	New Piezomer at DEC recommendation	Water Supply	Compliance	82,200	s	16.781 Not Available	Not Available	Include	4
Maintain WS Capacity	Design and Install Misc Projects	Water Supply	Compliance	\$ 292,515	\$ 2,693,400		Not Available	Include	5
New Test Wells & Production Wells	Permitting and Installation	Water Supply	Compliance	\$ 101,000	\$ 9,754,000	000 Not Available	Not Available	Exclude	9
New Test Wells & Replace Production Wells	Repl. Catamount well, New Ramapo Well	-	Compliance		\$ 2,265,100	100 Not Available	Not Available	Exclude	7
Indian Kill Dam Outlet	Replace Sluice Gates	Water Supply	Compliance	\$ 62,855	ŝ		Not Available	Include	80
Well Site Improvements	Various Projects	Water Supply	Compliance		\$		Not Available	Include	б,
Dam Improvements	Various Projects	Water Supply	Compliance	48,050	ه ۱		Not Available	Include	10
DeForest Dam Concrete	spalled Concrete Work	water supply	Compliance	669'61	00/'657 ¢		Not Available	Include	4 5
Potake Pond Low Level Outlet	Construction	Water Supply	Compliance		5 ZZ1,000		Not Available	Include	12
Indian Kill Dam Improvements	Construction	Water Supply	Compliance		5,783,500		Not Available	Include	13
Indian Kill Dam Improvement	Construction	Water Supply	Compliance	5 207,000	5 1,422,000		Not Available	Include	15
RVWF Calssonn Work	Construction	Water Supply	Compliance		000/665		Not Available	Include	15
Potake Pond Stability Improvements	Construction	Water Supply	Compliance		000'665 \$		Not Available	Include	9
LDF Watershed Improvements	Construction	Water Supply	Compliance		211/100 × 211/100		Not Available	include	11
GWUDI Treatment Well 97	Construction	Water Supply	Compliance	787,247	2,015,220 4		Not Available	Include	P.I.
GWUDI I reatment Well 50	Construction	water supply	Compliance	- 001	5 1,358,6UU	600 Net Audioble	Not Available	Include	21
sparkill		vvater supply	Compliance	00/'ENT	000,505,2 5		Not Available	Include	1 5
Replace Unemical Feed Equipment			Compliance	221,85	n 1		Not Available	Incrude	22
Replace water Quality Monitoring		water i eatment	Compliance	C70'CC	n 1	tot ver	Not Available	Include	67
Indian kili siudge Urain	Construction	Water Supply	compliance	UUV CC0	C24,22 C		Aldelieve to	Include	75
Sludge Druing Bed	Construction	Water Treatment	Compliance	7 369 667			Yes	Include	26
iron and Manganese	Construction	222	222	198.000	\$ 1 024 200		Not Available	Include	27
Sedimentation Basin Cover	Construction	Water Treatment	noliance				Not Available	Include	28
RVWF Overhaul	High Lift Pumps. VFDs	222			\$ 1.6		Not Available	Include	29
Hypo Building	Construction	Water Treatment	Infrastructure Replacement	~	5		Not Available	Include	30
LDF Intake Screen	Construction	Water Treatment		\$ 215,550	\$ 247,800		Not Available	Include	31
LDF Traveling Screens	Construction	Water Treatment	Infrastructure Replacement		\$ 1,743,600	600 Not Available	Not Available	Include	32
Sludge Lagoons	Construction	Water Treatment	Infrastructure Replacement		\$ 3,200,400	400 Not Available	Not Available	Include	33
Well De-aeration Projects	Install Equipment	Water Treatment	Infrastructure Replacement	,	\$ 1,075,500		Not Available	Include	34
Blue Lake Improvements	Construction	Water Treatment	Infrastructure Replacement	•	\$ 1,		Not Available	Include	35
SC Improvements	Various Projects	Water Treatment	222	32,890	\$	-	Not Available	Include	36
SV Generator	Evaluate and Install Generator	Water Treatment	Infrastructure Replacement	•	s 1		Not Available	Include	37
Electrical Improvement SV		water Ireatment		88,700	^ •	100 Yes	Not Available	Include	30
Letchworth Generator Indian Kill MACC	Equipment and Construction	water Treatment Infrastructure Improvement	Infrastructure Replacement	183 300	n v		Not Available Not Available	Include	60 40
I DF Improvements		Water Treatment		55,560	v v		Not Available	Include	41
Replace Instrumentation	Various Projects	Pumping	Other prevention of service deficiences	48,625	ŝ		Not Available	Include	42
kW Meters at Facilities	Various Projects	Pumping	Other prevention of service deficiences	48,850			Not Available	Include	43
Well Instrumentation Low CL Cutoff	Various Projects	Pumping	Other prevention of service deficiences	75,450	\$ 328,700	700 Yes	Not Available	Include	44
Replace Well Pumps and Motors	Various Projects	Pumping	222	44,550	\$ 1,750,800	800 Yes	Not Available	Include	45
Replace Booster Pumps	Various Projects	Pumping	777	\$ 68,675		000 Yes	Not Available	Include	46
SCADA	Various Projects	Pumping	deficiences		\$ 2,		Not Available	Include	47
Blaisdale	Supply from NJ	Water Treatment	Infrastructure Replacement	\$ 150,250	ŝ		Not Available	Include	48
Upgrades at Operating Facilities	Various Projects	Water Treatment	Infrastructure Replacement	, ,			Not Available	Include	49
Replace PKVs and Electric Valves	Various Projects	Water Ireatment	Infrastructure Replacement	,	5 216,900	900 Yes	Not Available	Include	0, 1
Electrical Upgrades	Various Projects	Water Ireatment			5	HIDPIIPAH IONI 000'C+C	Not Available	Include	1.5
New Hydrants	Various Projects	Distribution	Intrastructure Replacement	C 7 037 ADD		Enn Vas	Not Available Not Available	Include	00 7
Replace Hydrants	Various Projects	Distribution	Infrastructure Replacement		v v		Not Available	Include	5
Replace Short Mains	Various Projects	Distribution	Infrastructure Replacement	-	- 10		Not Available	Include	56
New Transmission Mains/Dead End closures		Transmission & Distribution	Infrastructure Replacement		225		Not Available	Include	57
Developer Projects	Various Projects	Transmission & Distribution	Extensions to New Customers	222	225	Not Available	Not Available	Include	58
Developer Projects	Various Projects	Transmission & Distribution	Extensions to New Customers	225	225	Not Available	Not Available	Include	59
Main Replacements	Various Projects	Transmission & Distribution	Infrastructure improvements	;	222	Not Available	Not Available	Include	60
Highway Projects	Various Projects	Transmission & Distribution	Highway Projects	222	èèè t		Not Available	Include	61
DIMAS Brotting Bodination	Various Projects	Transmission & Distribution	Intrastructure Improvements	5 2,977,600	5 12,168,100	100 Yes Not Austichlo	Not Available	Include	62 63
Tank Safety Improvements	Various Projects	Distribution Storage	compliance	293.900			Not Available	Include	64
Indian Kill Valve Vault and Road rehab	Construction	Distribution Storage	Prevention of service deficiences		× • •		Not Available	Include	65
Sterling Tank	Construction	Distribution Storage	Prevention of service deficiences	475,613	\$ 1,3		Not Available	Include	99

Ext

Haverstraw Tank	Construction	Distribution Storage	Prevention of service deficiences	s	109,686	ŝ	4.268.000 Yes	Not Available	Include	67	
) MG Hawaretraw Tank (Monsov)	Construction	Distribution Storage	Prevention of service deficiences	v	190.718	Ś	2 929 000 Yes	Not Available	Include	68	
E ING REVEISION REIN (NORSE)	Various Projects	Water Storage	Infrastructure Replacement	r vi	-	- 10		Not Available	Include	69	
New Domestic Services	Various Projects	Distribution	New Customer Connection	5	534,152	- 10		Not Available	Include	71	
New Fires Services	Various Projects	Distribution	New Customer Connection	\$	420,340	ş	2,536,000 Yes	Not Available	Include	72	
Replace Services	Various Projects	Distribution	Infrastructure Replacement	Ş	1,201,160	ş	7,092,000 Yes	Not Available	Include	73	
New Meters	Various Projects	Customer Meters	New Customer Connection				Yes	Not Available	Include	74	
New RFs	Various Projects	Customer Meters	New Customer Connection				Yes	Not Available	Include	75	
Replace Meters	Various Projects	Customer Meters	Infrastructure Replacement				Yes	Not Available	Include	76	
Replace RFs	Various Projects	Customer Meters	Infrastructure Replacement				Yes	Not Available	Include	11	
Fixed Meter System	Install Collectors - SWNY and O&R assets	Customer Meters	225	\$	237,300	ş	823,100 Yes	Not Available	Include	78	
Production Meters	Various Projects	Water Treatment	Infrastructure Replacement	s	72,300	ş	410,100 Yes	Not Available	Include	79	
Water Level Monitoring	Various Projects	Water Treatment	Infrastructure Replacement	\$	22,575	ş	142,600 Yes	Not Available	Include	80	
GIS	Various Projects	ц	Infrastructure Replacement	Ş	22,000	ş	114,600 Yes	Not Available	Include	81	
SCADA Connections	Various Projects	Ц	Infrastructure Replacement	ĩ		ş	205,700 Yes	Not Available	Include	82	
Blue Lake SCADA	Construction	E	Productivity Improvement	\$	96,500	s	109,700 Yes	Not Available	Include	83	
Maplebrook SCADA	Construction	Ц	Productivity Improvement			ş	164,000 Yes	Not Available	Include	84	
IT Server	Equipment and Installation	П	Productivity Improvement	Ş	26,100	Ş	30,000 Yes	Not Available	Include	85	
Router	Equipment and Installation	Ц	Productivity Improvement			ŝ	16,400 Yes	Not Available	Include	86	
Printers and Plotters	Equipment and Installation	Ц	Productivity Improvement	Ş	11,550	ş	71,100 Yes	Not Available	Include	87	
Hydraulic Modeling Update	Update Hydraulic Model	F	Productivity Improvement			s	150,000 Yes	Not Available	Include	88	
Leak Detection Equipment	Purchase Equipment	Tools	NRW Reduction	S	136,100	Ş	136,100 Yes	Not Available	Accelerate	90	
ArcFlash	Various Projects	Equipment	Safety	Ş	23,875	ş	136,800 Yes	Not Available	Include	91	
Safety and Security	Various Projects	General Plant	Compliance	s	45,225	s	311,100 Yes	Not Available	Include	92	
Lake DeForest Reservoir Fencing	Various Projects	General Plant	Compliance	Ş	47,600	ŝ	273,700 Yes	Not Available	Include	93	
New Tools and Equipment	Various Projects	Equipment	Tools and Equipment	s	17,400	s	120,200 Yes	Not Available	Include	94	
Building Improvements	Various Projects	General Plan	Compliance	Ş	68,150	s	383,400 Yes	Not Available	Include	95	
Replace Tools and Equipment	Various Projects	Equipment	Tools and Equipment	Ş	31,700	s	187,100 Yes	Not Available	Include	96	
Meter Shop Storage Shed	Purchase and Install	General Plant	Infrastructure	Ş	ł	ŝ	25,100 Yes	Not Available	Include	26	
West Nyack Building Imrprovements	Construction	General Plant	Compliance	ŝ	52,041	ş	710,700 Yes	Not Available	Include	98	
Underground Vault Improvements	Various Projects	General Plant	Safety	Ş	×	s	162,600 Yes	Not Available	Include	66	
UIRP and Water Supply Design	Various Projects	Prelininary Design	Various	ŝ	86,700	s	522,800 Yes	Not Available	Include	100	
Ramapo River Supply Optimization	Develop Ground and Surfact Water Model Prelininary Design	el Prelininary Design	Supply	ŝ	548,300	s	879,100 Yes	Not Available	Include	101	
Ramapo River Supply Optimization	Develop Ground and Surfact Water Model Prelininary Design	el Prelininary Design	Supply	s	ł	s	8,253,000 Yes	Not Available	Include	102	
System Surge Analysis	Analysis	Prelininary Design	Infrastructure			s	99,500 Yes	Not Available	Include	103	
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			Add some successful to increase and	D.	ren/0c1/61	2	95/500'/				

Add some amount to increase main replacement to achieve 1% --TBD