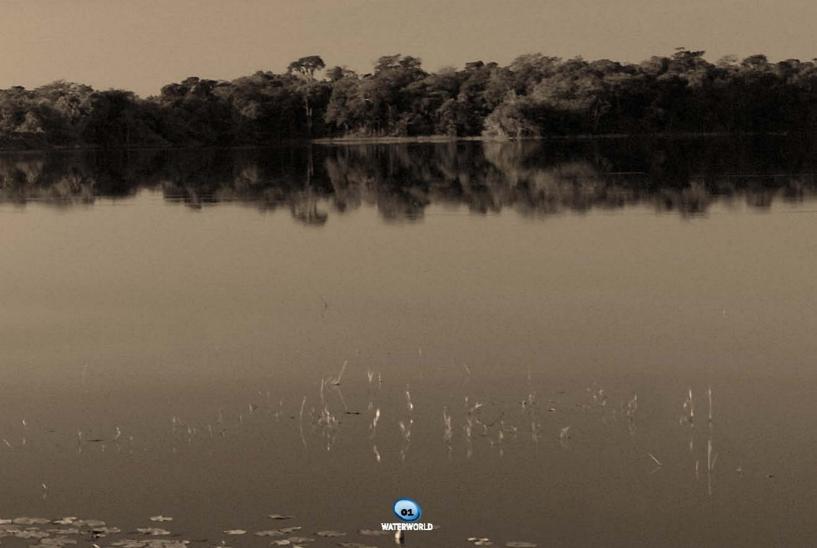


# 50 YEARS <u>IN</u> PICTURES





#### PUBLISHER WATER AND SEWERAGE AUTHORITY OF TRINIDAD AND TOBAGO

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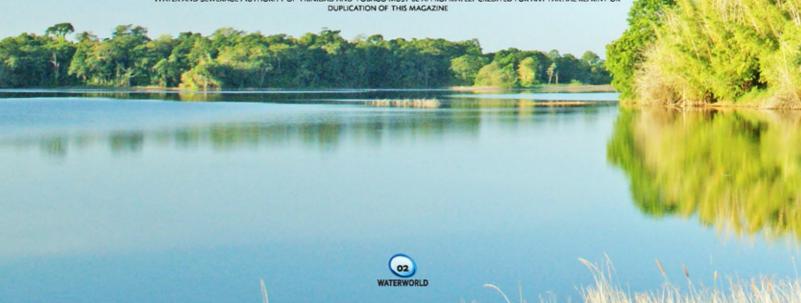
**CONTACT INFORMATION** 

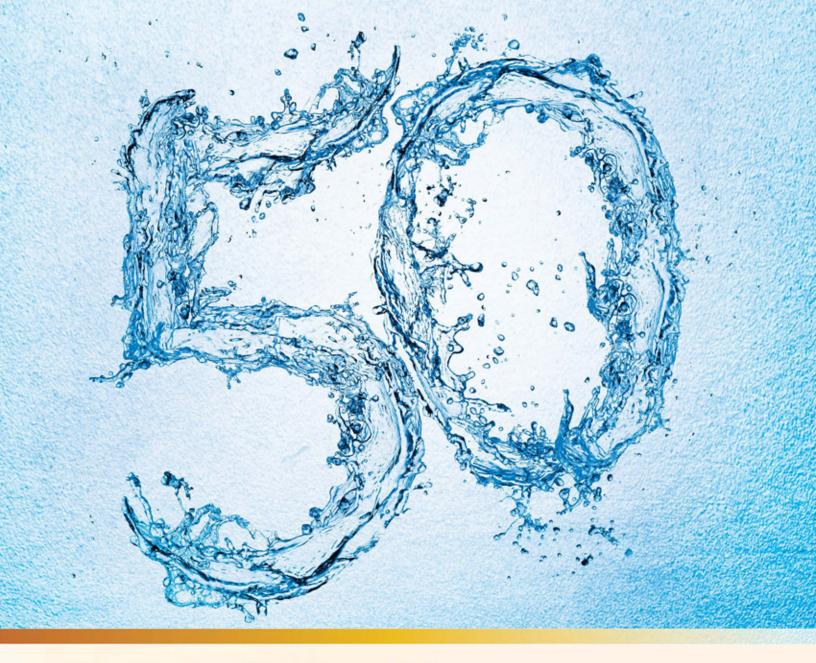
WATER AND SEWERAGE AUTHORITY OF TRINIDAD AND TOBAGO HEAD OFFICE: FARM ROAD, ST JOSEPH TRINIDAD AND TOBAGO. WI PH: 868-662-2302-7 EXT. 2310 FAX: 868-662-8184

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# Fifty Years of Dedicated Service

Water and Sewerage Authority of Trinidad and Tobago (WASA) was established on September 1st 1965, and in the last 50 years, we have made great strides in developing the country's water and wastewater sector.

To date, 73% of our customers are receiving a 24/7 water supply, up from 18% in 2010. As we commemorate our Golden Jubilee this year, our highest priority remains providing water to all our customers on a 24/7 basis. This is in keeping with our commitment to improve the lives of our citizens, as we endeavour to achieve water security for every sector.

It has been an honour to provide the people of our nation with a safe, reliable water supply, as well as wastewater services over the last half-century, and we look forward to delivering an even greater level of service to the coming generations.





#### **MESSAGE FROM THE CEO**

ollowing the social turbulence caused by the Water Riots of 1903, the Colonial Government at the time made several attempts in the subsequent years to streamline and centralize the water and wastewater services in Trinidad and Tobago. This resulted in the first tariff structure being put in place in 1923, while the Central Water Board was established in 1935. In 1942, severe water shortages in several parts of the country led to the creation of a Water Enquiry Board, which recommended that administrative bodies in Arima, Port of Spain and San Fernando be unified into one central authority.

Arising out of this past, the Water and Sewerage Authority (WASA) was established on September 1, 1965 by Act 16 of Parliament. The Water and Sewerage Act provided for the amalgamation of seven agencies then responsible for water and sewerage throughout the country—The Central Water Distribution Authority, The Port-of-Spain City Council, the San Fernando Borough Council, the Arima Borough Council, County Councils, The Water Divisions of the Ministry of Public Utilities, and the Sanitation Division of the Ministry of Public Utilities.

On 1st September, 2015 WASA will celebrate its 50th Anniversary or Golden Jubilee and as CEO of this great organization at this momentous occasion in our history, I feel privileged to be able to use the forum of this WaterWorld magazine, to provide some insight on how WASA and the water sector in Trinidad and Tobago has developed from 1965 to now.

In 1965 the total water production in Trinidad and Tobago stood at 45 million gallons per day, with the main water treatment plants operating at the time being Maraval Waterworks – constructed 1853; Hollis Reservoir – constructed 1936; Hillsborough Reservoir – constructed 1952; and Navet Reservoir – constructed 1962. Ten years later the Navet Water Treatment Plant was upgraded and two new waterworks - Courland and Hillsborough West were constructed and commissioned in Tobago. This was followed by the construction of the North Oropouche Water Treatment Plant in 1979, and the construction of water treatment facilities at Acono, Lluengo/Naranjo, Caura, Aripo and Guanapo under the Northern Range Valley Project in 1980. Under the \$105M Caroni Arena Project in 1981, the Arena Reservoir and the Caroni Water Treatment Plant were constructed.

For the decade spanning 1985 to 1995 a number of rural communities were provided with a pipe-borne water supply when several water projects were commissioned. Some of these included the Sans Souci Water Treatment Plant, the Pt. Fortin and St. Patrick's Water Supply Projects, and the rehabilitation of Courland Waterworks.

From the mid to the late 1990s \$1.5 billion raised on the local market was used to fund a number of developmental works, among them the North, South and Tobago Water Projects, which included upgrade of the Caroni Water Treatment Plant and the rehabilitation of water facilities in north and south Trinidad; while in Tobago the focus was on the development of new groundwater sources.

As the Authority entered the new millennium, several major milestones were achieved, among them the commissioning of the La Fillette Water Supply Project and the Ravine Sable Water Treatment Plant, completion of the upgrade to the Caroni Water Treatment Plant, as well as delivery of 22 million gallons of water per day through the new Desalination Plant at Point Lisas.

Notwithstanding these developments over the years, the Authority failed to keep pace with the country's overall development and demand, as in 2010 only 18% of customers were receiving a 24/7 water supply. Since then, WASA has been engaged in a major infrastructural development programme, aimed at achieving 24/7 service delivery to at least 85% of customers by 2015.



Some of the major projects and initiatives undertaken thus far are as follows:

- Replacement of pipelines throughout Trinidad and Tobago including: the Navet, Caroni and Hollis Trunk Mains, as well as localized transmission pipelines in Las Lomas, Maracas - St. Joseph, Siparia, Carenage, Couva, Freeport, Plymouth and Courland etc. In total, there have been 1325 transmission and distribution pipeline projects, at an estimated cost of TT \$1,168,292,000.00
- Construction of five (5) new Water Treatment Plants in Talparo, Matura, Penal and Point Fortin;
- Upgrade of sixteen (16) Water Treatment Plants including: Hollis, North Oropuche, Point Fortin, Penal, Tompire, Highlands Road and Kings Bay among others;
- Construction of nine (9) new Booster Stations inclusive of South Oropuche and Tulip Booster Stations; as well as rehabilitation of existing Booster Stations at Biche, Le Platte in Maraval, St. Anns, Cap-de-Ville and San Fernando;
- Drilling of twelve (12) new wells;
- Installation of new storage tanks at Mayaro and Arouca with an additional eleven (11) to be installed by the end of 2015.

In light of these accomplishments, I am proud to state that the Authority is well on its way to attaining its goal, with 73% of customers currently in receipt of a sustainable 24/7 supply.



GERARD YORKE
CHIEF EXECUTIVE OFFICER

As it relates to the Wastewater Sector, when WASA was established, the low level sewerage system, built over the period 1902 - 1937, was inadequate to meet the wastewater treatment needs of a rapidly expanding country. One of the first responsibilities of the newly established Authority, was overseeing the major island-wide Sewerage Extension Project that was being executed by Lock Joint Ltd. The project, which was completed in 1966, involved the construction of new wastewater treatment plants in Port-of-Spain, San Fernando and Arima, along with the installation of wastewater collection systems that included 384 km of street sewers and 5,000 manholes.

Since then, development of the wastewater sector has been sporadic, some of which include completion of the Caroni Wastewater Treatment Plant (WWTP) in 1980, construction of the Scarborough WWTP in 1994 and Beetham WWTP in 2004.

Today WASA maintains 36 WWTPs, which services 30 percent of the population. In an attempt to improve wastewater collection and treatment, the Authority is currently overseeing an Inter-American Development Bank (IDB) funded Multi-Phase Wastewater Rehabilitation Programme, valued at US\$546 Million. Phase 1 of the programme has a cost of US\$278 Million and will see the construction of wastewater treatment plants and associated collection systems in the San Fernando and Malabar catchments.

Furthermore, WASA has undertaken 28 other wastewater projects (6 already completed, 10 in progress and 12 in the planning stage). Overall, this represents the largest investment in the wastewater sector since the Lock Joint Project back in the 1960's. When completed, centralized wastewater coverage in Trinidad and Tobago is expected to double to 60%, as approximately 511,115 persons will benefit from improved efficiency of wastewater collection and treatment.

WASA's accomplishments over the past 50 years have been built on the hard work, dedication and commitment of many that have gone before. In this Special 50th Anniversary issue of the WaterWorld magazine, we take the opportunity to recognize through pictures, some of the individuals and activities that has helped to build and shape WASA into what it is today.





#### **NIS Social Insurance Products**

#### BENEFIT CATEGORIES

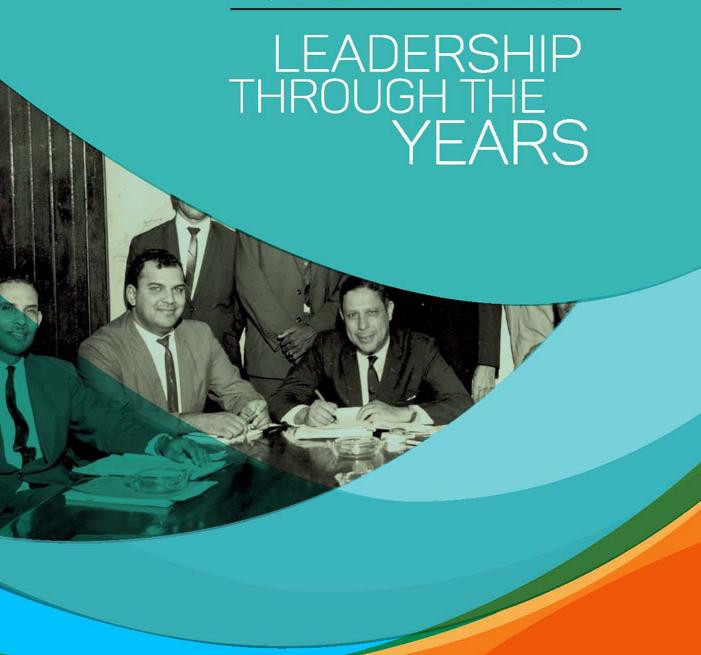
- · Employment Injury
- · Funeral Grant
- Invalidity
- Maternity
- · Retirement Pension
- Sickness
- · Survivor's

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# **Protection** FOR LIFETIME

The National Insurance System provides financial security to our stakeholders through the mandatory, publicly-managed social insurance system. We offer affordable protection from contingencies arising out of pregnancy/delivery, illness or injury, retirement and even death.

In so doing, we have the privilege of serving over 600,000 customers for over 43 years; and with perseverance, we continue to make improvements to our benefits and services with each passing year.





# **1ST WASA BOARD 1965**







# **CHAIRMEN**

HORACE ROBERTS: 1ST CHAIRMAN

WILFRED D BEST: 1970-1978

JOYCE ALCANTARA: 1978-1981

MERVYN Mc CONNIE: 1981-1983

Dr. HARRY PHELPS: 1983-1986











# CHAIRMEN

STEPHANIE DALY: 87-91

IMTIAZ HOSIEN: 91-92

E HENRY SEALY: 92-95

LEO MARTIN: 95-97

NAZIR KHAN: 96-2001

BARRY BARNES: 2004-2005

DR ROLLIN BERTRAND: 2006-2008

SHAFEEK SULTAN KHAN: 2008-2010

INDAR MAHARAJ: PRESENT











# **EXECUTIVE DIRECTORS**

VC Mc KILLOP: 1ST EXECUTIVE DIRECTOR

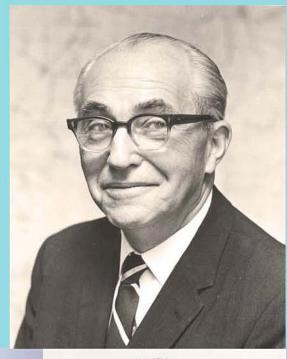
WINSTON DAVIS: 1970-1977

EMILE WARNER: 1978-1987

ELTON WYKE: 1988-1991

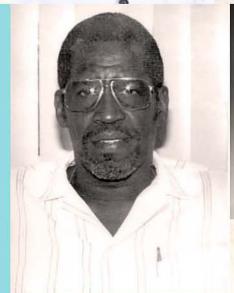
EMILE CHARLES: 1993-1995 TEAM CO-ORDINATOR

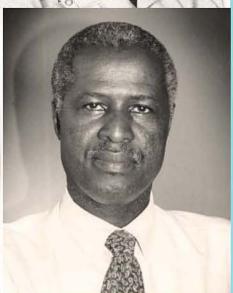
EMMANUEL ROMAIN: 1995-1997















# **CHIEF EXECUTIVE OFFICERS**

ROBERT EVANS: 1997-1998

ERIC ASHCROFT: 1997-1998

JOHN MAYERS: 1998

ASHRAM-BEHARRY: 1999

KHANSHAN KHANHAI: 2000-2002

ERROL GRIMES: 2002-2008

PATRICE OLEACH: 2008-2009





#### **CHIEF EXECUTIVE OFFICERS**

JIM LEE YOUNG: 2009-2010

**ANDREW SMITH: 2010** 

GANGA SINGH: 2010 -2012

DION ABDOOL: 2012

GERARD YORKE: 2012 TO PRESENT



## **CURRENT LEADERSHIP TEAM**

DOODNATH BHOLA DIRECTOR, CUSTOMER CARE

RAMCHAND RAMCHARAN
DIRECTOR, PROGRAMMES AND CHANGE MANAGEMENT

DION ABDOOL GENERAL COUNSEL AND CORPORATE SECRETARY

KEN MAHABIR DIRECTOR, HUMAN RESOURCES

GERARD MATHURA DIRECTOR, FINANCE

WENDELL DIAZ
DIRECTOR, CORPORATE SERVICES

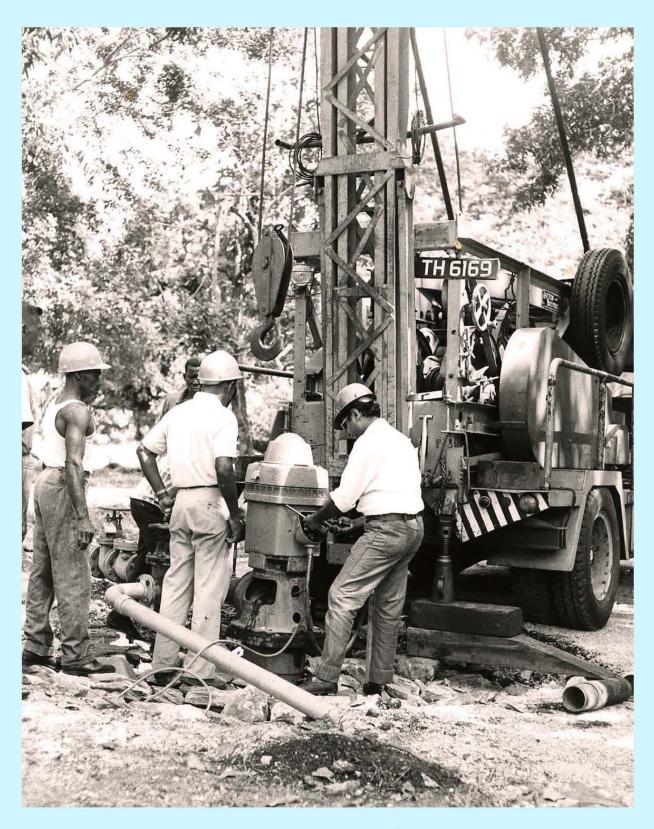
STEVE JOSEPH
DIRECTOR OPERATIONS











WATER WELL DRILLING 1970'S



CENTRAL WATER DISTRIBUTION AUTHORITY HQ

CARONI TRANSMISSION MAIN INSTALLATION 1970'S

CARONI WTP UNDER CONSTRUCTION 1979

PIPELINE WORKERS LEAVING THE MARAVAL WTP 1960'S













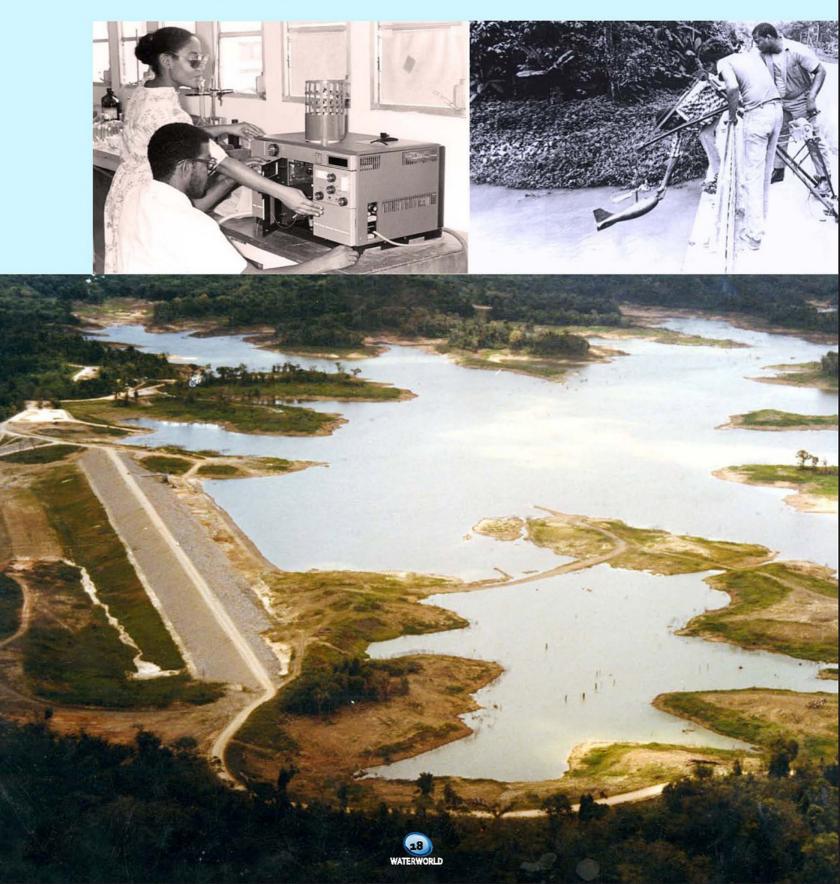
VILLAGER CARRIES WATER FROM PUBLIC STAND PIPE - 1970'S

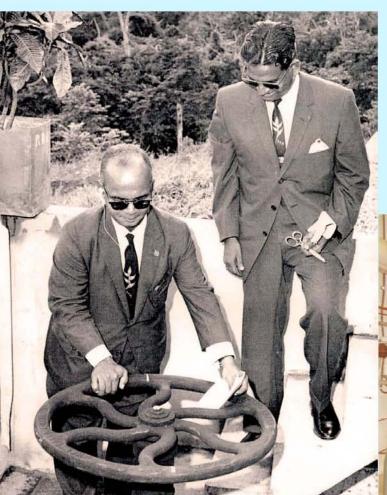
TURN-COCKS CONDUCT VALVING OPERATIONS - 1970'S

THE PUBLIC STAND PIPE WAS ONCE THE SOURCE OF SUPPLY FOR MANY COMMUNITIES



WATER QUALITY TESTING AT CENTRAL LABORATORY 1980'S WRA PERSONNEL CONDUCT RIVER TESTS
NEWLY COMPLETED ARENA RESERVOIR BEGINS TO FILL





PRIME MINISTER DR. ERIC WILLIAMS AND PUBLIC UTILITES MINISTER KAMALLADIN MOHAMMED AT COMMISSIONING OF THE UPGRADED NAVET WTP 1976

PRIME MINISTER GEORGE CHAMBERS AT OPENING OF CARONI WTP 1981

Prime Minister Arthur NR Robinson and Chief Secertary THA, Nevick DeNoon at commissioning of Hillsborugh West WTP





PRIME MINISTER BASDEO PANDAY OPENS SELF HELP PIPELINE PROJECT IN EAST DRY RIVER 1999

PRIME MINISTER PATRICK MANNING AT COMMISSIONING OF ST JOHNS BOOSTER ST. AUGUSTINE 2002



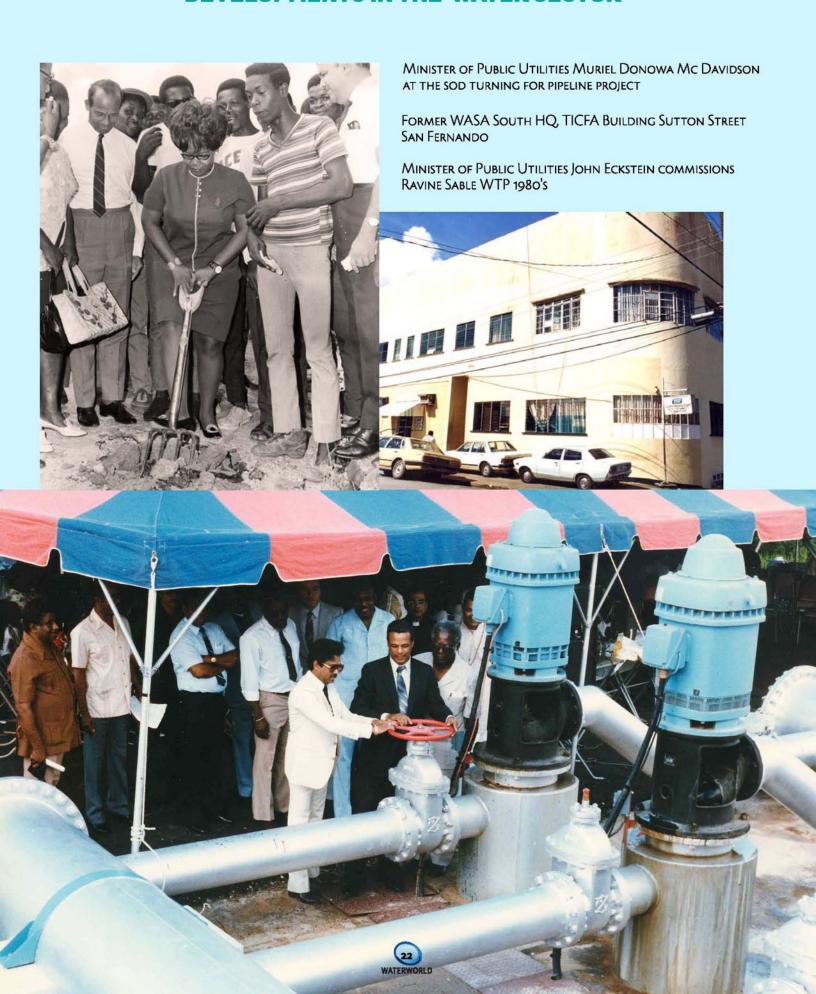




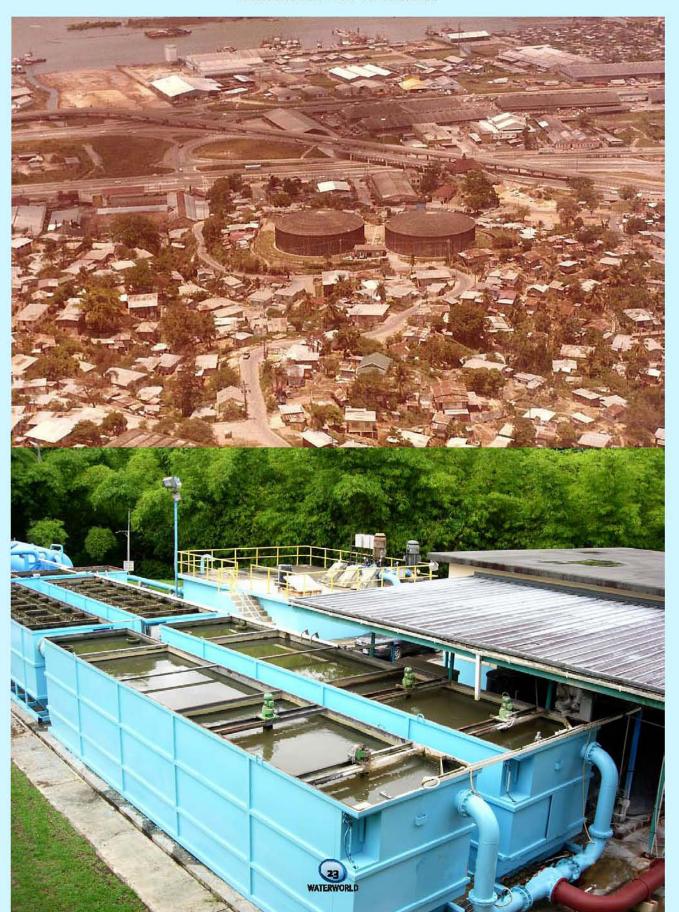


Prime Minister Kamla Persad Bissessar shakes hands with Public Utilities Minister Emmanuel George at the commissioning of Navet Trunk Main Replacement Project, 2011



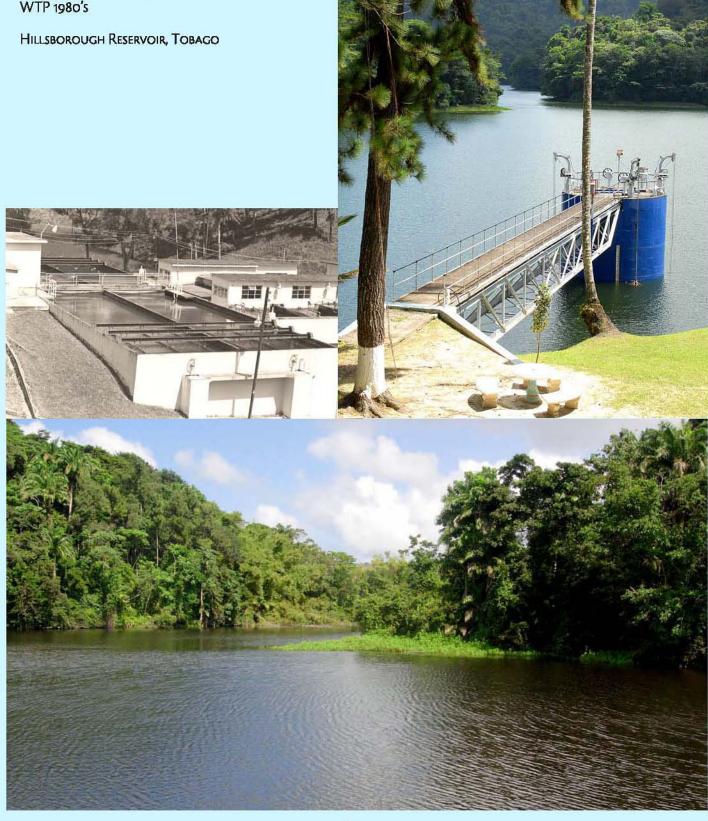


Overhead view of Picton Reservoir, Laventille
Hillsborough West Waterworks



PICTURESQUE HOLLIS RESERVOIR

REFURBISHED COURLAND WTP 1980'S





POINT LISAS DESALINATION PLANT 2002

POINT FORTIN DESALINATION PLANT 2013



# FOCUS ON THE FUTURE





NAVET TRUNK MAIN PROJECT 2011 GIS SYSTEM IN USE AT WASA 2001 WATER TRUCK SERVICE FREE







New Clarke Road Portable WTP 2010, one of four including Talparo, Matura and Point Fortin, which were commissioned since then

INDUSTRIAL METER READING

SAMPLING FOR TESTING AT BEETHAM WWTP





WASA RECIEVES LARGEST EVER PIPE SHIPMENT FROM XING XING CHINA 2013

HOLLIS TRUNK MAIN REPLACEMENT PROJECT 2013







Innovation that excites

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OLD MUCARAPO WASTEWATER PUMPING STATION

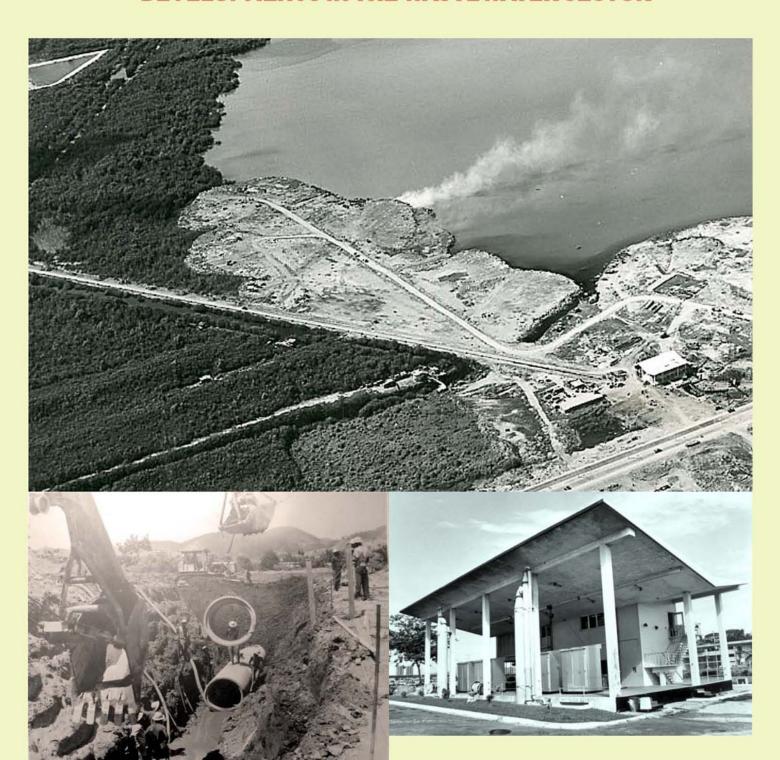
LAUNCH OF LOCK JOINT LTD. EXECUTED WASTEWATER EXPANSION PROJECT IN 1962

LOCK JOINT LTD. EXECUTED WASTEWATER EXPANSION PROJECT IN PROGRESS 1960'S









ARIEL PHOTOGRAPH OF BEETHAM PUMPING STATION IN 1964

Works in progress on Lock Joint Ltd. executed wastewater expansion

OLD BEETHAM PUMPING STATION



# This system meant an increase in staff

From Page 12

you had only to say that he was "talking Lock Joint" and he would soon get the message.

It was a so much more delicate way to put it.

delicate way to put it.
Seriously, though, the
national sewerage project has fulfilled a
great need—a need that
was felt as far back as
1935-37 when major
construction work was
carried out on the
then very limited Portor-Spain sewer system.
Now there is almost an
island-wide system of
sewer pipes leading to
treatment plants and
pumping stations.



The main pumping sta-tion off the Beetham Highway is a relatively large structure more than 40 feet below the ground.

"Architecturally," Mr. Bates said, "the Bates said, "the superstructure is modern in design with a butterfly roof and walls a combination of reinforced concrete,



Inspecting a laid pipe.

corrosive to necessitate the use of a resistant cement.

The sewerage project is the "baby" of the Ministry of Public Utilities.

stry of Public Utilities.

More specifically, it is
the "baby" of the
Sanitation Division of
this ministry.

In order to permit the

that were supplied to them.

Now the project is almost completed.

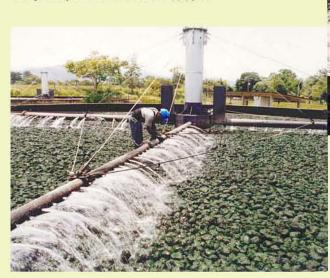
BUT THEIR WORK STILL CONTINUES— IF ONLY TO ENSURE THAT THE JERE-MIAHS AND CASSAN-DRAS ARE WRONG

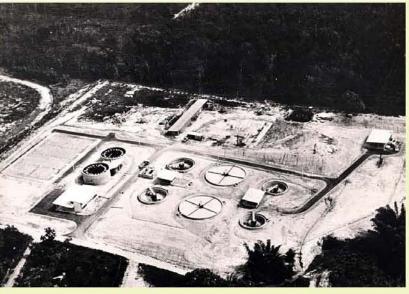


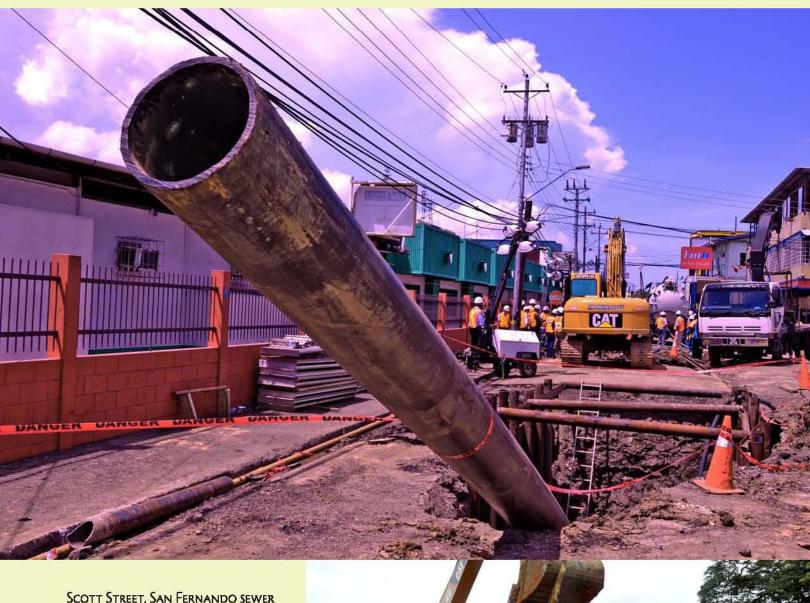
NEWSPAPER ARTICLE ON NEW SEWER SYSTEM CONSTRUCTED BY LOCK JOINT LTD

OVERHEAD VIEW OF ARIMA WASTEWATER TREATMENT **PLANT IN 1964** 

WORKER CARRIES OUT MAINTENANCE ON IN THE TRICKLING FILTER AT ARIMA WWTP







SCOTT STREET, SAN FERNANDO SEWER REPAIR 2012

SAN FERNANDO SEWER INSTALLATION PROJECT IN 2013

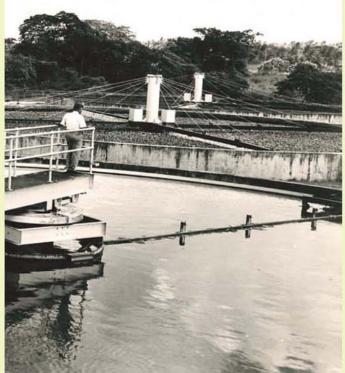






Aerial view of San Fernando Wastewater Treatment Plant

SAN FERNANDO WASTEWATER TREATMENT PLANT



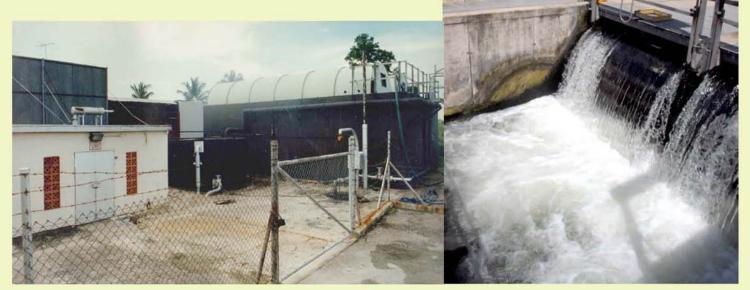




ARIEL PHOTOGRAPH OF NEW WASA BEETHAM WWTP IN 2005

FINAL EFFLUENT AFTER ULTRAVIOLET TREATMENT AT THE BEETHAM WWTP

ONE OF THE HDC PACKAGED WASTE WATER TREATMENT PLANT ADOPTED BY WASA







WASTEWATER WORKERS SUIT UP BEFORE COMMENCING SEWER MAINTENANCE WORK

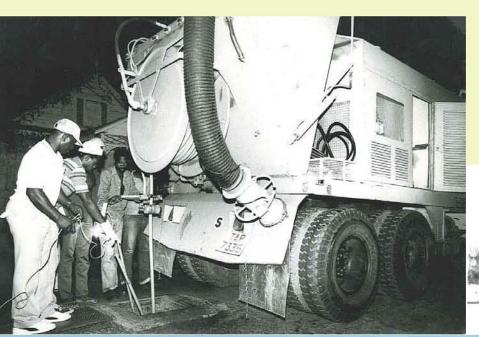
OLDER MODEL OF CCTV EQUIPMENT USED TO VIEW INSIDE SEWER MAINS

WORKER MONITORS SEWER SYSTEM USING CCTV EQUIPMENT

Workers using modern CCTV equipment to assist in sewer collection system maintenance







Workers use Vac Master equipment to clear sewer main

One of the first Vac Master trucks used to maintain WASA's wastewater collection systems

New generation Vac Master Trucks currently in use





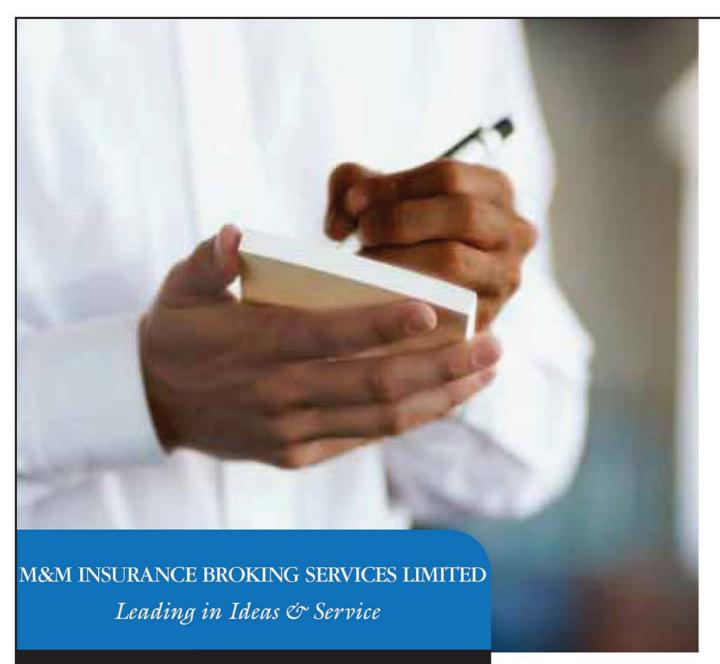




CONCRETE POUR AT SITE FOR NEW MALABAR WWTP - 2015

PILE DRIVING AT SITE FOR NEW SAN FERNANDO WWTP - 2015





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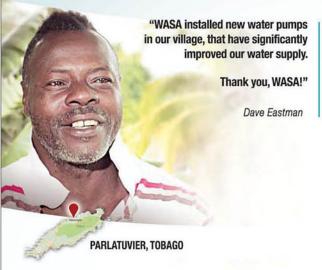
Cross Crossing Shopping Centre San Fernando Trinidad & Tobago W.I. TEL: 657-2256/657-2343

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# Celebrating the joy now flowing across the country.







"The people of Biche were very happy when we got water for the first time in our lives. Because we never had water before.

Thank you, WASA!"

Rufina Orosco

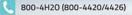
WASA's 24/7 programme continues to have a very positive effect on communities across the country. In just four short years, we have moved from supplying a mere 18% of the nation's water needs to an impressive 73%.

And the full service delivery of water for everyone is our goal as we continue on course to 24/7 for the people of Trinidad and Tobago.











wasa.gov.tt







**BICHE** 



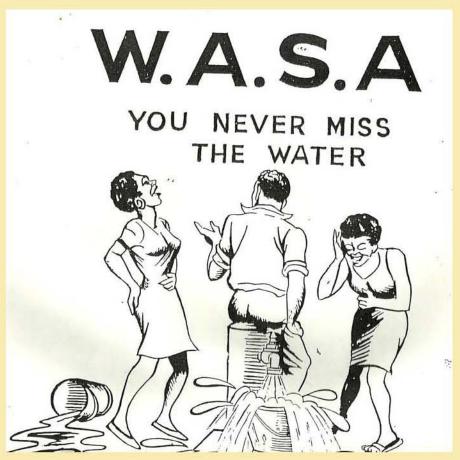








WASA WATER CONSERVATION ADVERTISING CAMPAIGN - 1970'S









Former Public Utilities Minister Ganga Singh opens CWWA Conference 1999

WASA - PSA NEGOTIATIONS 1990

WASA Workers protest for BETTER WAGES 1980'S





STUDENTS ON TOUR AT PEC LEARN ABOUT WATER CONSERVATION

STUDENTS TOUR CARONI WATER TREATMENT PLANT 1982

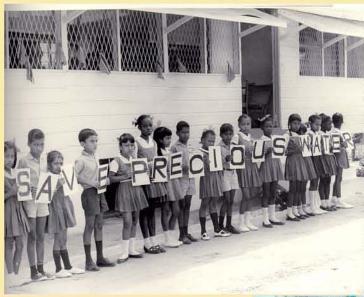
VISITING STUDENTS FROM GUYANA DURING TOUR OF THE PEC 2011

STUDENTS OF THE SDA PRIMARY SCHOOL
SAN FERNANDO LEAVE THE PUBLIC EDUCATION
CENTRE (PEC)











CONSERVATION MESSAGE FROM SCHOOL CHILDREN 1970'S

Primary school kids on educational tour to Hollis Reservoirs in 1970's

WASA MASCOT H2O OZZIE A FAVORITE WITH KIDS AT WASA EVENTS

WASA CHRISTMAS CHILDRENS TREAT 2010









WASA IN THE KNOW WITH H2O QUIZ COMPETITION 2013

1ST WASA IN THE KNOW QUIZ WINNERS: BISHOPS HIGH SCHOOL TOBAGO - 2011









WASA 1985 FOOTBALL TEAM
WASA FC - 2006 FA CUP CHAMPIONS











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- \* Folding Chairs
- \* Round, Rectangular & Square Tables
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- \* Platforms
- \* Portable Toilets
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- \* Ministry of Community Development Just to name a few

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Frank Martineau





WASA DIVALI QUEEN SHOW 2005

PUJA AT WASA DIVALI CELEBRATIONS 2008

WASA DIVALI QUEEN SHOW 2007

WASA EID CELEBRATIONS 2014





WASA Emancipation Walk from Makandal Dagger Park to Head Office, St. Joseph WASA Emancipation Queen Show 2007





CONTESTANTS IN WASA EMANCIPATION QUEEN SHOW - 2006

WASA EMANCIPATION CELEBRATIONS 2007









WASA'S RAYMOND LA CROIX SWIMS FROM TOBAGO TO TRINIDAD MAY 1991

WASA CREWS HELP QUELL FIRES AT BEETHAM LANDFILL 2014

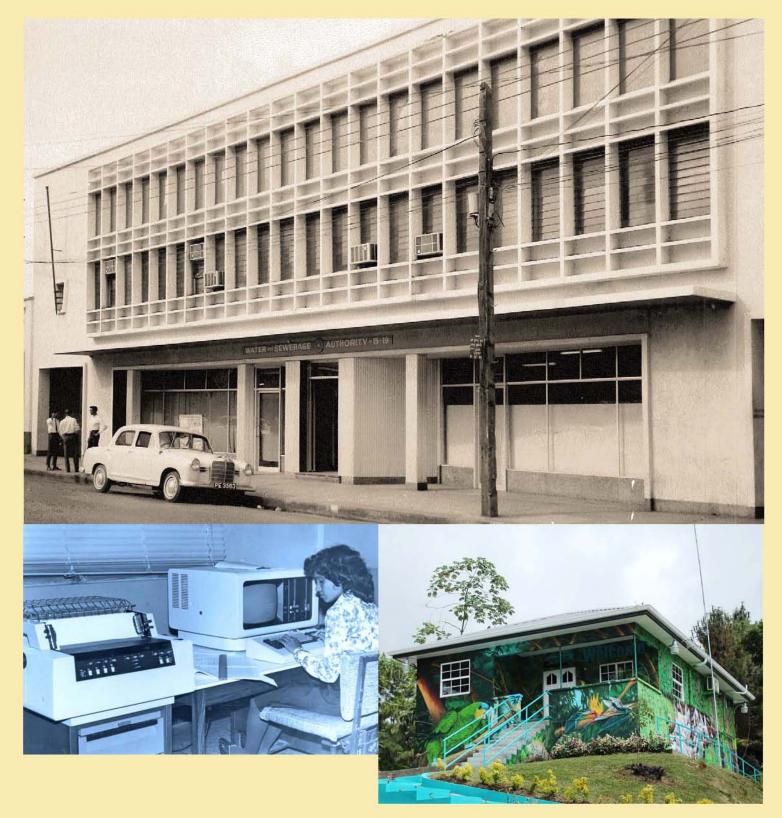




1ST WASA HEAD OFFICE, TRAGARETE ROAD, PORT OF SPAIN

DATA ENTRY CLERK AT WORK IN NEWLY ESTABLISHED EDP DEPARTMENT 1980'S

NEW PUBLIC EDUCATION CENTRE AT HILLSBOROUGH TOBAGO 2014





SITE CLEARING FOR NEW HEAD OFFICE BUILDING AT ST. JOSEPH PRESENT HEAD OFFICE BUILDING COMPLETED 1983





#### CLOSING MESSAGE FROM THE CEO

his special 50th Anniversary publication of the Waterworld magazine has given readers a glimpse into the past and the development path of the Authority. However, it is critical that we seek to build on those past achievements as we look toward the future. In doing so, the Authority intends to keep site of its Motto, Vision and Mission.

- Motto: Water Security for Every Sector. Deliver it, Sustain it.
- Vision: To be the best performing water utility in the Western Hemisphere.
- Mission: To be a leading provider of water and wastewater services; To deliver customer service along the highest
  internationally recognised and accepted standards; To continuously develop best business practices utilizing
  advanced technology and a well-developed and motivated workforce; To leverage on industry expertise to offer
  global water and wastewater services; To sustain a commercialised business while remaining sensitive to our
  stakeholders and the environment.

As the Authority continues along its path of development, it will be further unfolding various aspects of the strategic development plan for the organization in the coming years. This plan involves initiatives over a number of broad areas including: infrastructural development; corporate governance; financial sustainability; customer care; environmental protection; and organizational performance.

There are several key projects, earmarked by the Authority for completion by 2016 to 2017, which will result in full 24/7 service delivery to all customers. Some of these major water supply projects include: Beetham Water Reuse; Ravine Sable Reservoir and Water Treatment Plant; and desilting of Hillsborough Reservoir, which combined will increase overall water production extensively. The accomplishment of full 24/7 service delivery is expected be one of the first landmarks, as the Authority continues its transformation into a modern, service driven and viable utility of which we can all be proud.



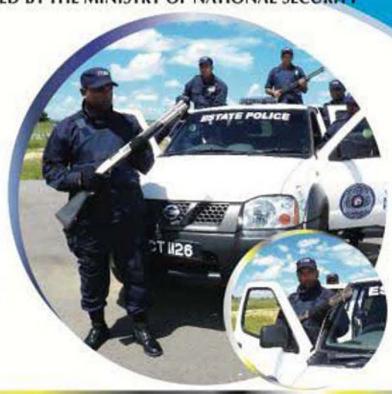


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