### GENERAL SUPERINTENDENT RECOMMENDATIONS FOR THE APRIL 18, 2018 MEETING

- A. <u>BIDS</u>. A listing of the bids received during the month of March 2018 is included in the following report. A brief summary is attached for your review.
  - Item 1 R-054-2018 CONTRACT 2129 WATER MAIN POINT
    REPAIR, WATER SERVICE CONNECTION,
    WATER VALVE AND FIRE HYDRANT
    REPLACEMENT VARIOUS SITES THROUGHOUT
    ORLEANS PARISH
  - Item 2 R-055-2018 CONTRACT 30216 RESTORATION OF
    GRAVITY FLOW SANITARY SEWER MAINS BY
    POINT REPAIR AT VARIOUS SITES
    THROUGHOUT ORLEANS PARISH
  - Item 3 R-029-2018 CONTRACT 5241 DRAINAGE SYSTEM SUPPORT ANTI-SIPHON DPS 1 PROJECT

### B. EMERGENCY REPAIR

Item 4 - R-053-2018 - EMERGENCY CONTRACT - SYCAMORE FILTER
GALLERY STRUCTURAL AND FILTER REHAB

### C. CONTRACT FINAL ACCEPTANCE

- Item 5 R-042-2018 CONTRACT 1381 PURCHASE AND
  INSTALLATION OF COMPRESSOR, TANK AND
  DRYER IN THE SYCAMORE FILTER GALLERY
  AT THE MWPP
  - R-049-2018 CONTRACT 2111 WATER MAIN POINT
    REPAIR, WATER SERVICE CONNECTION,
    WATER VALVE AND FIRE HYDRANT
    REPLACEMENT AT VARIOUS SITES
    THROUGHOUT ORLEANS PARISH
  - R-047-2018 CONTRACT 2123 WATERLINE REPLACEMENTS
    AND EXTENSIONS AT SCATTERED LOCATIONS
    THROUGHOUT ORLEANS PARISH

- R-013-2018 - CONTRACT 30016 - RESTORATION OF EXISTING
GRAVITY FLOW SANITARY SEWERS BY EXCAVATION
AND REPLACEMENT FROM MANHOLE TO MANHOLE,
CIPP LINING FROM MANHOLE TO MANHOLE, CIPP
LINING OF SERVICE LATERALS AND POINT
REPAIRS AT VARIOUS SITES THROUGHOUT THE
CITY OF NEW ORLEANS

# GENERAL SUPERINTENDENT RECOMMENDATIONS REPORT OF FINAL ACCEPTANCE TO BE CONSIDERED BY THE FINANCE AND ADMINISTRATION COMMITTEE AND THE BOARD'S MEETING OF APRIL 18, 2018

During March bid(s) were received and evaluated (as per attached tabulations) on various items as follows:

# 1. CONTRACT 2129 - WATER MAIN POINT REPAIR, WATER SERVICE CONNECTION, WATER VALVE AND FIRE HYDRANT REPLACEMENT VARIOUS SITES THROUGHOUT ORLEANS PARISH

Four (4) bids were received on January 5, 2018 for performing work under Contract 2129. The low bid of Grady-Crawford was non-responsive to the specifications because they did not comply with the current bid law. It is, therefore, recommended that the low formal bid of Wallace C. Drennan, Inc. in the total amount of \$877,164.00 be accepted based upon the technical review of the proposals.

### The four (4) bidders are as follows:

1. Grady-Crawford	\$ 870,683.00
2. Wallace C. Drennan, Inc.	877,164.00
3. Fleming Construction Company, LLC	1,028,114.00
4. RAMJ Construction	1,118,500.00

The DBE participation goal is 36%.

The estimated amount for this project is \$1,000,000.00.

Funds for this project are budgeted under Capital Program 110 (Normal Extensions and Replacements).

# 2. CONTRACT 30216 - RESTORATION OF GRAVITY FLOW SANITARY SEWER MAINS BY POINT REPAIR AT VARIOUS SITES THROUGHOUT ORLEANS PARISH

Five (5) bids were received on February 16, 2018 for performing work under Contract 30216. It is recommended that the low bid of Wallace C. Drennan, Inc. in the total amount of \$862,300.00 be accepted based upon the technical review of the proposals.

### The five (5) bidders are as follows:

1.	Wallace C. Drennan, Inc.	\$	862,300.00
2.	Grady-Crawford		934,440.00
	Fleming Construction Company, LLC		967,084.00
	RAMJ Construction	1	,075,000.00
	Boh Bros. Construction Co., L.L.C.	1	,094,340.00

### GENERAL SUPERINTENDENT RECOMMENDATIONS (CONT'D)

April 18, 2018 Page 2

The DBE participation goal is 36%.

The estimated amount for this project is \$990,000.00.

Funds for this project are budgeted under Account Code 6621 (Non-FEMA Sewer Paving and Point Repair) and Object Code 4408 (Sewer Point Repairs).

# 3. CONTRACT 5241- DRAINAGE SYSTEM SUPPORT ANTI-SIPHON DPS 1 PROJECT

Five (5) bids were received on February 23, 2018 for performing work under Contract 5241. It is recommended that the low bid of M.R. Pittman Group, LLC in the total amount of \$529,000.00 be accepted based upon the technical review of the proposals.

### The five (5) bidders are as follows:

1.	M.R. Pittman Group, LLC	\$529,000.00
	Industrial & Mechanical Contractors, Inc.	566,433.00
	Gottfried Consulting	574,200.00
	Fleming Construction Company, LLC	625,239.00
	Lou-Con, Inc.	923,500.00

The DBE participation goal is 10%. M.R. Pittman DBE participation goal is 45%.

The estimated amount for this project is \$600,000.00.

Funds for this project are budgeted under Capital Program 511 (Normal Extensions and Replacements-DPS).

# 4. EMERGENCY CONTRACT - SYCAMORE FILTER GALLERY STRUCTURAL AND FILTER REHAB

Three (3) bids were received on April 2, 2018 for performing work under this emergency contract. It is recommended that the low bid of M.R. Pittman Group, LLC in the total amount of \$2,049,000.00 be accepted based upon the technical review of the proposals.

### GENERAL SUPERINTENDENT RECOMMENDATIONS (CONT'D)

April 18, 2018

Page 3

The three (3) bidders are as follows:

1. M.R. Pittman Group, LLC \$2,049,000.00
2. Industrial & Mechanical Contractors,
Inc. 2,429,840.00

3. B&K Construction, Co., LLC

3,278,241.00

The DBE participation goal is 20%.

The estimated amount for this project is \$2,912,928.59.

Funds for this project are budgeted under Capital Program 110 (Normal Extensions and Replacements).

5 .

### REPORT OF FINAL ACCEPTANCE

### PROPOSAL:

Contracts 1381, 2111, 2123 and 30016 be considered for acceptance.

### EVALUATION:

Contract 1381 - Lou-Con, Inc. - Purchase and Installation of Compressor, Tank and Dryer in the Sycamore Filter Gallery at the MWPP. Total Contract Bid \$375,000.00. Total Contract Expenditure \$410,164.84. Date Work Order Issued January 9, 2017. Date Work Accepted September 7, 2017. The DBE Participation Goal is 20%. The DBE participation Achieved is 29%.

Contract 2111 - Wallace C. Drennan, Inc. - Water Main Point
Repair, Water Service Connection, Water Valve and Fire Hydrant
replacement at Various Sites Throughout Orleans Parish. Total
Contract Bid \$3,197,190.00. Total Contract Expenditure
\$12,973,531.52. Date Work Order Issued June 5, 2015. Date Work
Accepted August 8, 2017. The DBE Participation Goal is 36%. The
DBE participation Achieved is 40.41%.

GENERAL SUPERINTENDENT RECOMMENDATIONS (CONT'D)

April 18, 2018

Page 4

Contract 2123 - Wallace C. Drennan, Inc. - Waterline Replacements and Extensions at Scattered Locations Throughout Orleans Parish. Total Contract Bid \$1,777,140.00. Total Contract Expenditure \$6,120,161.82. Date Work Order Issued May 9, 2016. Date Work Accepted October 17, 2017. The DBE Participation Goal is 36%. The DBE participation Achieved is 36%.

Contract 30016 - Wallace. C. Drennan, Inc. - Restoration of Existing Gravity Flow Sanitary Sewers by Excavation and Replacement from Manhole to Manhole, CIPP Lining from Manhole to manhole, CIPP Lining of Service Laterals and Point Repairs at Various Sites Throughout the City of New Orleans. Total Contract Bid \$4,277,481.00. Total Contract Expenditure \$5,578,844.22. Date Work Order Issued September 29, 2015. Date Work Accepted June 14, 2017. The DBE Participation Goal is 36%. The DBE participation Achieved is 29.14%.

### RECOMMENDATION:

The above contracts are recommended for acceptance.

BHA/J RAPR18.GSR CONTRACT 2129 - WATER MAIN POINT REPAIR, WATER SERVICE CONNECTION, WATER VALVE AND FIRE HYDRANT REPLACUEMENT VARIOUS SITES THROUGHOUT ORLEANS PARISH

BE IT RESOLVED by the Sewerage and Water Board of New Orleans that four (4) bids were received on January 5, 2018 after advertising according to the Public Bid Law, for performing work under Contract 2129. The second low formal bid was hereby accepted and contract awarded therefore to Wallace C. Drennan, Inc. for the total amount of \$877,164.00.

I, Bruce H. Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

CONTRACT 30216 - RESTORATION OF GRAVITY FLOW SANITARY SEWER MAINS BY POINT REPAIR AT VARIOUS SITES THROUGHOUT ORLEANS PARISH

BE IT RESOLVED by the Sewerage and Water Board of New Orleans that five (5) bids were received on February 16, 2018 after advertising according to the Public Bid Law, for performing work under Contract 30216. The bid was hereby accepted and contract awarded therefore to Wallace C. Drennan, Inc. for the total amount of \$862,300.00.

I, Bruce H. Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

Contract 5241 - Drainage System support Anti-Siphon DPS 1 Project

BE IT RESOLVED by the Sewerage and Water Board of New Orleans that five (5) bid quotations were received on Friday, February 23, 2018 after advertising according to the Public Bid Law, for performing work under Contract 5241. The responsible and responsive low bid was hereby accepted and contract awarded therefore to M.R. Pittman Group, LLC for the total amount of \$529,000.00.

I, Bruce H. Adams, P.E., Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

RATIFICATION OF FINAL ACCEPTANCE AND CLOSE OUT OF CONTRACT 1381, PURCHASE AND INSTALLATION OF COMPRESSOR, TANK AND DRYER IN THE SYCAMORE FILTER GALLERY AT THE MWPP

WHEREAS, the Sewerage and Water Board entered into Sewerage and Water Board Contract No. 1381 with Lou-Con, Inc., and

WHEREAS, Contract 1381 is ready for Final Acceptance by Sewerage & Water Board of New Orleans, and

WHEREAS, the Interim General Superintendent in his report has recommended that this contract receive final acceptance and be closed out.

NOW, THEREFORE, BE IT RESOLVED, by the Sewerage and Water Board of New Orleans that the recommendation of the Interim General Superintendent, to authorize final acceptance and to close out Contract 1381, is hereby approved.

I, Bruce Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

RATIFICATION OF CHANGE ORDER NO. 4 AND FINAL ACCEPTANCE FOR CONTRACT 2111 - Water Main Point Repair, Water Service Connection, Water Valve and Fire Hydrant Replacement at Various Sites throughout Orleans Parish

WHEREAS, the Sewerage and Water Board of New Orleans entered into Contract 2111 with Wallace C. Drennan Inc. for the amount of \$6,394,380.00, and

WHEREAS, the contractor provided additional water point repair services under this Contract due to an increase in projects reported throughout the City, and

WHEREAS, this Change Order, in the amount of \$855,221.33 brings the accumulated change order total to \$6,579,151.52 or 102.89% of the original Contract value and extended the contract duration 90 days, and

WHEREAS, Contract 2111 is ready for Final Acceptance and Closeout by the Sewerage and Water Board of New Orleans

NOW, THEREFORE, BE IT RESOLVED, by the Sewerage and Water Board of New Orleans that Change Order No. 4 and Recognition of Final Acceptance are hereby approved.

I, Bruce H. Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

RATIFICATION OF CHANGE ORDER NO. 2 AND FINAL ACCEPTANCE FOR CONTRACT 2123 - Water main Line Replacements and Extensions at Scattered Locations throughout Orleans Parish

WHEREAS, the Sewerage and Water Board of New Orleans entered into Contract 2123 with Wallace C. Drennan Inc. for the amount of \$3,554,280.00, and

WHEREAS, the contractor provided additional water point repair services under this Contract due to an increase in projects reported throughout the City, and

WHEREAS, this Change Order, in the amount of \$70,856.82 brings the accumulated change order total to \$2,565,881.82 or 72.19% of the original Contract value and extended the contract duration 0 days, and

WHEREAS, Contract 2123 is ready for Final Acceptance and Closeout by the Sewerage and Water Board of New Orleans

NOW, THEREFORE, BE IT RESOLVED, by the Sewerage and Water Board of New Orleans that Change Order No. 2 and Recognition of Final Acceptance are hereby approved.

I, Bruce H. Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

BID PROPOSALS FOR 2018 STRUCTURAL AND FILTER REHABILITATION OF THE SYCAMORE FILTER GALLER IN THE AREA OF FILTERS 21-24

BE IT RESOLVED by the Sewerage and Water Board of New Orleans that three (3) bids were received on April 2, 2018 for structural, valve, and media rehabilitation at the Sycamore Filter Gallery. The low bid was hereby accepted and contract awarded therefore to M.R. Pittman Group, LLC for the total amount of \$2,049,000.00.

I, Bruce H. Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

RATIFICATION OF CHANGE ORDER # 2, AND FINAL ACCEPTANCE AND CLOSEOUT FOR CONTRACT NO. 30016, Restoration of Existing Gravity Flow Sanitary Sewers by Excavation and Replacement from Manhole to Manhole, CIPP Lining from Manhole to Manhole, CIPP Lining of Service Laterals and Point Repairs at Various Sites throughout Orleans Parish

WHEREAS, the Sewerage and Water Board entered into Maintenance Contract No. 30016 with Wallace Drennan and

WHEREAS, Change Order No. 2 is a final Balancing Change Order for the contract Items that were overrun/underrun during the contract duration. Change Order 2 is required to achieve final acceptance of Contract 30016 and

WHEREAS, the work performed increased the value of the contract by \$25,094.35 and extended the duration by 0 days, and

WHEREAS, Contract 30016 is ready for Final Acceptance and Closeout by the Sewerage & Water Board of New Orleans,

NOW, THEREFORE, BE IT RESOLVED, by the Sewerage and Water Board of New Orleans that Change Order No. 2 and Recognition of Final Acceptance are hereby approved.

I, Bruce H. Adams, Interim General Superintendent, Sewerage and Water Board of New Orleans, do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted at the Regular Meeting of the said Board, duly called and held, according to law, on April 18, 2018.

# RATIFICATION OF CHANGE ORDER NO. 1 FOR CONTRACT 6259 – INSTALLATION OF PERMANENT GENERATORS AT 5 DRAINAGE UNDERPASS STATIONS

WHEREAS, the Sewerage and Water Board entered into Contract 6259 with Industrial & Mechanical Contractors, Inc. to install permanent emergency generators at 5 underpass stations in the bid amount of \$1,438,610, and

WHEREAS, this Change Order represents the following work items; FCO 1 Re-layout of survey stakes to drive support piles at New Carrollton UPS, FCO 2 Pothole exploration to confirm the location of existing utilities at Franklin UPS, FCO 3 Changes in the scope of work at Canal UPS due to conflicts caused by elevation, FCO 4 Repairs to the water service at New Carrollton UPS, Relocation of the Mission Control at Canal UPS, and the Re-Layout and survey to drive support piles at Franklin UPS, FCO 5 Testing and inspection of all 5 sites, FCO 6 Removal and Replacement of the driveway at Press UPS, FCO 7 Modification of the platform stairs and handrails at Franklin UPS, and FCO 8 Installation of emergency generators at the Hospital and St. Bernard UPS. The addition of the work associated with these two (2) additional generators is 45% of this change.

WHEREAS, this Change Order, in the amount of \$719,625.41, brings the accumulated Contract change order total to \$2,158,235.41, or 50 % percent of the original Contract value.

**NOW THEREFORE BE IT RESOLVED,** the approval of Change Order No. 1 for Contract 6259 is ratified by the Sewerage and Water Board of New Orleans.

I, Bruce Adams, Interim General Superintendent,
Sewerage and Water Board of New Orleans, do hereby
certify that the above and foregoing is a true
and correct copy of a Resolution adopted at the Regular
Monthly Meeting of said Board, duly called and held,
according to law, on April 18, 2018.



## SEWERAGE AND WATER BOARD OF NEW ORLEANS

### Inter-Office Memorandum

Date:

April 4, 2017

From:

Bruce Adams, P.E.

Interim General Superintendent

To:

Marcie Edwards

Interim Executive Director

Re:

Contract 6259 - Installation of Permanent Generators at 5 Drainage Underpass Stations

D aumorpois

Enclosed please find a recommendation for approval of Change Order No.1 for the above captioned contract.

The change is comprised of miscellaneous work associated with the installation of permanent emergency generators at five (5) underpass drainage stations. Throughout the construction process modifications had to be made to the various sites to accommodate the placement of the generator sets and their automatic transfer switches, on the order of; utility exploration, resurveying for the placement of support piles, the relocation of a Mission Control system, and the relocation of a generator pad due to slope conflicts caused by elevation. Also, as a part of this change will be the work necessary to install two (2) additional permanent emergency generators at the Hospital and St. Bernard underpass stations, that compromise 45% of this change.

The Contractors current attained DBE is 36.41%. The required DBE participation goal on this contract is 36% percent and will remain unchanged through this approved change order. The cumulative change order amount is \$719,652.41 or 50% of the original bid amount of the Contract.

I would appreciate you forwarding this change order to the attention of the appropriate committees of the Board for their consideration and approval.

Bruce Adams, P.E. Interim General Superintendent

Cc:

M. Ron Spooner

Jason P. Higginbotham

Alvin Porter Dexter Joseph Willie Mingo

Jade Brown-Russell Rosita Thomas Kevin Braxton

# Sewerage & Water Board of New Orleans: Change Order Approval Form

2018

Contract #	6259	P/O#	Date: 4/5/2018	1
Project Name	: Installation of Peri	manent Generators at 5 Drainage UPS	S's Job/Project# <u>E0519XXX/E0520FEM</u>	
Reason for Ch	nange Order: There ar	e ten work items associated to this cha	ange order, please see FCO 'S 1-8	
			or To Change Order:\$1,438,610	
Original Cont	ract Amount:	\$1,438,610 Total Spent to	Date: \$1,027,868.34	
PW#:	lA	Vendor: Industrial & Mechanica	al Contractors, Inc.	
C. P. Item#		% C. P. Item#/	% C. P. Item#/%	
Source of fun	ding for Change Ord	er:		
System Fund	s: \$ 719,625	Bonds: \$FE	EMA: \$ Anticipated FEMA: \$	=/
Total Fundin	g: \$ 719,625.41			
FUND Code	CAP	ORGN Code ACT	TIVITY Code 2330 OBJECT Code 3300	-
Total Project	Investment to Date:	(Place total amount of contracts on p	rojects)	
•	Survey Phase		\$ 44,554.00	
•	Design Phase		\$ N/A	
•	Testing Phase		\$ 6,204.42	
•	Value of A/E Co	ntract for this work to Date:	\$ 50,758.42	
•	Construction Co	ntract Value to Date:	<u>\$2,158,235.41</u>	
•	Value of Project	Management to Date:	\$ N/A	
•	Value of other P	rofessional Services to Date:	\$ N/A	
•	Total Investmen	t to Date:	\$2,208,993.83	
RECORDATION	I			
<ul><li>Does this</li><li>If the ans</li><li>change or</li></ul>	change order put the wer is yes to either o	ne of these questions recordation is renewed they must be recorded they must be recorded a	s of the original contract and is it more than \$100,000? 🔀 Yes 🔲 I required by state law within 30 days. If the original contract and/or	No previous
	rocurement Used: [•	Should always be RFP for amendment Yes No Yes No. If Yes, %_36		

### **ACTION CRITICAL**

Objective consideration of alternatives: Describe other actions considered. If none, explain why

 I recommend approval for the above project (If not recommending for approval, please indicate a reason below, and return this to the previous signatory)

# Sewerage & Water Board of New Orleans: Change Order Approval Form

Kein Broston	Date: 4/5/18
Level Two (2) Project Manager, S&WB, Engineering Departm	nent
Requested Response Date	.110
Welley & Appoull	Date: 415/18
Toward Office	
•Level One (1) Manager, S&WB, Engineering Department	, ,
Requested Response Date: / /	Date: 4/5/18
Mewer of ourself	Date: 11 3/1 G
Deputy Director, General Superintendent, S&WB, Engineer	ering Department
Requested Response Date://_	y 9
Brown of Gelson	Date: 04/06/2018
	/
<ul> <li>Irvin Carter, Fiscal Manager, PDU</li> </ul>	
Requested Response Date://_	
	_Date:
Executive Director, S&WB	
Requested Response Date://_	
	_Date:
Willie Mingo, Director of Procurement, S&WB	
Requested Response Date://_	

# SCOPE OF CHANGES No. 1 Contract 6259, Installation of Permanent Generators at 5 UPS's (Change Order No. 1)

# ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

Item #	FCO#	Detailed Description	Units	Unit Price	Quantity	Amount	Days	Comments
MR.	-	Re-Layout of survey stakes at New Carrollton UPS	TS	\$1,533.25	-	\$1,533.25	-	FEMA Inclizible
MR2	2	Potholing for utility exploration at Franklin UPS	TS I	\$1,838.74	1	\$1,838.74	_	FEMA Incligible
MR3	10	Changes in scope of work at Canal UPS	L.S.	\$46,772.75	I	\$46,772.75	2	FEMA Incligible
MR4	4	Repair water service at New Carrollton UPS.	L.S.	\$1,976.55	1	\$1,976.55	-	FEMA Incligible
MR5	7	Relocation of Mission Control at Canal UPS	LS	\$4,120.94	-	\$4,120.94	_	FEMA Incligible
MR6	4	Re-Layout and Survey of Franklin	1.5	\$761.62	-	\$761.62	-	FEMA Ineligible
MR7	2	Testing and Inspection	1.5	\$6,204.42	-	\$6.204.42	0	FEMA Inclinible
MR8	9	Remove and replace part of the driveway at Press UPS	LS	\$9,922.38	-	\$9,922.38	0	FEMA Inclinible
MR9	7	Modification of the platform stairs and handrails at Franklin UPS	ITS	\$1,459.06	-	\$1,459.06	0	FEMA Ineligible
MR10	00	Installation of emergency generators at Hospital and St. Bernard UPS	1.5	\$645,035.70	-	\$645.035.70	150	FEMA Incligible
						\$719,625.41	160	
								BASE
Contrac	Contract DRF %	3,90 %	Original Amount of previous Change Orders	\$ 1.438,610.00		Original Contract Days Days Previously Added	act Days	252
Current	Current DBE %	36.4%	Amount this Change Order	\$719,625.4	-	Days this Change Order	Order	160
Forecas	Forecasted DBE %	% 36.0%	Change Orders to date	\$ 719,625.41		Days Added to date	d to date	160
			REVISED CONTRACT AMOUNT 5 2,158,235.41	\$ 2,158,235.41		REVISED CONTRACT DAYS	T DAYS	412
	% OF	% OF ORIGINAL CONTRACT AMOUNT This Change Order 50.0% Previous Change Order 0.0% TOTAL TO DATE 30.0%	Work Comple	Work Completion Milestone Date 10/22/2017	te 9/5/2017			
It is mut	bually ago	It is mutually agreed to perform and accept the above revisions in accordance with the original contract and applicable specifications for the above price. This Change Order includes all OH and Profit fees associated with the work. No additional fees shall be awarded after acceptance of this Change Order	contract and applicable specifications to Arder	for the above price.	This Change	Order includes	all OH ar	d Profit fees
Proposed By:	d By:	Recommended By:		Approved By:	-			

CONTRACT AMENDMENT NO. 2 TO THE AGREEMENT BETWEEN THE SEWERAGE AND WATER BOARD OF NEW ORLEANS AND VEOLIA WATER NORTH AMERICA-SOUTH, LLC FOR EMERGENCY PROFESSIONAL SERVICES AGREEMENT FOR FACILITIES CONDITION ASSESSMENT

WHEREAS, on August 25, 2017 the Sewerage and Water Board of New Orleans (Board) awarded an emergency contract in the amount of \$3,000,000.00 to Veolia Water North America-South, LLC to assist the Board in the areas of Asset Hierarchy Development, Asset Criticality, Condition Assessment, Pumping Capacity Testing, Drainage System Assessment, System Visibility and Analytics, Storm Drainage System Review and Resource and Personnel Availability; and

**WHEREAS**, the current term of the contract for Professional Services by Veolia Water North America-South, LLC expired on November 30, 2017; and

**WHEREAS**, the Board approved at the November 2017 Board Meeting Veolia's budget amendment request of \$2,766,971.00 to perform additional engineering services; and,

**WHEREAS**, the Board approved at the December 2017 Board Meeting a five (5) month contract extension for developing a functional live data platform associated with Task 6 – Visibility Platform; and,

**WHEREAS**, Veolia Water North America-South, LLC is requesting a five (5) month contract extension for (1) completing the Condition Assessment Diagnostic Tests to provide S&WB with a baseline set of asset condition data and (2) further developing a functional live data platform associated with the original Task 6 – Visibility Platform; and,

**NOW THEREFORE BE IT RESOLVED**, that the President and/or President Pro Tem shall be authorized to execute the amendment to this agreement with Veolia Water North America-South, LLC increasing the fee authorized to be paid to Veolia Water North America-South, LLC by \$2,884,478 and extending the contract period to September 30, 2018.

I, Bruce Adams, Interim General Superintendent,
Sewerage and Water Board of New Orleans, do hereby
certify that the above and foregoing is a true
and correct copy of a Resolution adopted at the Regular
Monthly Meeting of said Board, duly called and held,
according to law, on December 20, 2017.



### SEWERAGE AND WATER BOARD OF NEW ORLEANS

### Inter-Office Memorandum

Date: April 4, 2018

From: Bruce Adams, P.E.

Interim General Superintendent

N adam 04/06/2018

To:

Marcie Edwards

Interim Management Team

Re:

Contract Amendment No. 2 - Veolia Water North America-South, LLC Emergency

Professional Services Agreement for Facilities Condition Assessment

Please see the attached letter from the Chief of Engineering, recommending approval of a Contract Amendment for Additional Engineering Services performed by Veolia Water North America-South, LLC (Veolia).

On August 25, 2017 the Sewerage and Water Board of New Orleans awarded an emergency contract in the amount of \$3,000,000.00 to Veolia to assist the Board in the areas of Asset Hierarchy Development, Asset Criticality, Condition Assessment, Pumping Capacity Testing, Drainage System Assessment, System Visibility and Analytics, Storm Drainage System Review and Resource and Personnel Availability. On November 15, 2017 the Board approved Veolia's budget amendment request of \$2,884,478 to perform additional engineering services and term extension ending April 30, 2018.

This second Amendment will focus on two categories of scope: (1) Condition Assessment Diagnostic Testing Gaps not completed during the period between August 25, 2017 and December 8, 2017 and (2) Continued Development of S&WB's Visibility Platform, which is the operations data backbone of the entire Sewerage & Water Board organization).

The specific scope line items are detailed in the table below and include a provision to provide as-needed additional engineering services, root cause analysis reports and potential staff augmentation during 2018 Hurricane season should funding allow.

Each task of the scope of work allows for a 15% contingency to decrease the chance of requiring a change order and the contract is structured as a do-not-exceed, Time & Materials.

Finally, the required DBE participation goal will remain the same as per the original contract goal of 10%. Veolia's current DBE participation to date is 6% and project participation is 11%. This Contract Amendment request brings the cumulative total of Contract Amendments to \$8,651,449.

Scope	Description	2018 Timeframe	*Amou	nt
	Assessment to identify abnormal or elevated vibration readings on			
Vibration	rotating equipment components indicative of wear and other potential	March 1 - July 27	\$	64,505.80
	condition issues.		-	
	Determine actual capacity of a pump to remove drainage water. This			
Pump Capacity Testing	includes all outstanding drainage pumps, plus various others	March 1 - July 27	\$	532,055.62
	(powerhouse and underpass stations).			
Motor Circuit Analysis	Determine if any motor circuits have insulation degradation or other	March 1 - July 27	S	38,630,80
retord circuity and hard	electrical issues.		_	
Vacuum Pump / System Assessment	Determine the capabilities to effectively prime certain types of	March 1 - July 27	ŝ	11,620.98
ABERRIA L BILID.) SASTERI ASSESSMENT	drainage pumps.		ļ.	
Structural Assessment	Comprehensive structural assessment of buildings, concrete structures	March 1 - July 27	Ś	108.530.10
Structulal Assessment	and the like		, ·	
	Develop visibility into the potable water distribution system operation			
Additional Potable Water Distribution	as a whole is currently limited. This proposal includes the instillation /	March 1 – July 27	Ś	346,996.72
System Pressure Monitoring	integration of extensive pressure monitoring, clearwell / elevated tank		1	
	level monitoring and flow measurement equipment.			
	Includes second phase of equipment installation of Meter I/Os, which			
	provides detailed status of pumps and surrounding equipment		1	
	including feeder breakers, breakers to transformers in the station and		1	
	status of bus tie breakers. This also includes evolution of Software	March 1 . July 27	s	1,022,403.40
Visibility Platfrom Development Phase 1A	Development, Alarming System Development, Detailed	March 1 - July 27	1,	1,022,703.70
	Documentation Development and Hand-Offs, Additional Interface		1	
	Facilitation with Amry Corps SCADA and GIS and additional connection			
	to 9 stations and the Plant Frequency Changer system.			
	(1) provide long-term technical support for all facets of the Visibility			
	Platform; field wiring, meters, programmable logic controllers,			
	communication systems, SCADA hardware and software, and data	30-Sep 2018	Ś	340,691,28
Long Term Support of Pl	historian development and functionality, and (2) accommodate a	30-3eb 2018	3	340,051.26
	gradual transition of this technical support function to nominated			
	S&WB employees.			
	10% of total sub task costs. Deliver weekly progress reporting to			
	management and operations staff of all onging tasks, deploy, manage			
	and monitor requisite resources (Veolla and Subcontractors), provide	7 Months	_	410.043.43
Program Management	single point of contact to S&WB for any questions related to the	March 1 - Sept 30	\$	419,043.47
	project implementation. Fee is inclusive of temporary office	,		
	accommodations for Veolia staff.			
	Veolia has considerable resources and capability to support the Board			
	through the emergency situation and will make such resources		P	
	available to the Board as it may require and Veolia has available (e.g.			
	Emergency Operator Support, Root Cause Failure Analyses, etc.). This			
Resource & Personnel Availability	stand-by Task will only be undertaken with pre approval of the Board	30 Sep 2018		
	and will be agreed to before any additional support is provided.			
	Funding for this task will be provided as Change Orders to the existing			
	Contract Cap.			
		Total	5	2,884,478.17

I would appreciate you forwarding this request to the attention of the appropriate committees of the Board for their consideration and approval.

Cc:

M. Ron Spooner, Chief of Engineering Eric Labat, Interim Chief of Operatons Willie Mingo, Procurement Legal Dept



### SEWERAGE AND WATER BOARD OF NEW ORLEANS

### Inter-Office Memorandum

Date:

April 4, 2018

From:

M. Ron Spooner, P.E.

Chief of Engineering

To:

Bruce Adams

Interim General Superintendent

Re:

Contract Amendment No. 2 - Veolia Water North America-South, LLC (Veolia)

**Emergency Professional Services Agreement for Facilities Condition Assessment** 

Enclosed please find a recommendation for approval of Contract Amendment No. 2 for the above captioned contract.

This second Amendment will focus on two categories of scope: (1) Condition Assessment Diagnostic Testing Gaps not completed during the period between August 25, 2017 and December 8, 2017 and (2) Continued Development of S&WB's Visibility Platform, which is the operations data backbone of the entire Sewerage & Water Board organization).

The specific scope line items are detailed in the table below and include a provision to provide as-needed additional engineering services, root cause analysis reports and potential staff augmentation during 2018 Hurricane season should funding allow.

Each task of the scope of work allows for a 15% contingency to decrease the chance of requiring a change order and the contract is structured as a do-not-exceed, Time & Materials.

Finally, the required DBE participation goal will remain the same as per the original contract goal of 10%. Veolia's current DBE participation to date is 6% and project participation is 11%.

Scope	Dascription	2018 Timeframe	*Amount
	Assessment to identify abnormal or elevated vibration readings on		
ylbration	rotating equipment components indicative of wear and other potential	March 1 July 27	\$ 64,505.80
	condition issues		
	Determine actual capacity of a pump to remove drainage water. This		
Pump Capacity Testing	includes all outstanding drainage pumps, plus various others	March 1 July 27	\$ 532,055 62
	(powerhouse and underpass stations)		
	Determine if any motor circuits have insulation degradation or other	March 1 July 27	5 38,630 80
Motor Circuit Analysis	electrical issues		
	Determine the capabilities to effectively prime certain types of	March 1 July 27	5 11,620,98
Vacuum Pump / System Assessment	drainage oumos	Indich a very ex	-
	Comprehensive structural assessment of buildings, concrete structures	March 1 July 27	5 108.530.10
Structural Assessment	and the like.	I Walter 2 July 81	100,300,
	Develop visibility into the potable water distribution system operation		
Aportional Potable Water Distribution	as a whole is currently limited. This proposal includes the instillation /	March 1 July 27	5 346,996 72
System Pressure Monitoring	integration of extensive pressure monitoring, clearwell / elevated lank		7 310,330 12
	level munitoring and flow measurement opcipment.		
	includes second phase of equipment installation of Meter I/Os, which		
	provides detailed status of pumps and surrounding equipment		
	including feeder breakers, breakers to transformers in the station and		
	Status of bus tie breakers. This also includes evolution of Software	Named 1 July 27	\$ 1,022,403.40
Visibility Platfrom Development Phase 14	Development, Alarming System Development, Detailed	ing feeder breakers, breakers to transformers in the station and of bus its breakers. This also includes evolution of Software prenent, alarming System Development, Detailled mentation Development and Hand Offs, Additional Interface attom with Anny Corps SCADA and GIS and additional connection alions and the Plant Frequency Changer system.	3 1,022,403 40
	Documentation Development and Hand Offs, Additional Interface		
	Facilitation with Amry Corps SCADA and GIS and additional connection		
	to 9 stations and the Plant Frequency Changer system		
	(1) provide long term technical support for all facets of the Visibility		
	Platform: field wiring, meters, programmable logic controllers,		
	communication systems, SCADA hardware and software, and data		240 404 20
Long Term Support of Pl	historian development and functionality, and (2) accommodate a	30 Sep 2018	\$ 340,691,28
	gradual transition of this technical support function to nominated		
	S&WB employees		
	10% of total sub-task costs. Deliver weekly progress reporting to		
	management and operations staff of all onging tasks, deploy, manage		
	and monitor requisite resources (Veolia and Subcontractors), provide	7 Months	
Program Management	single point of contact to S&WB for any questions related to the	March 1 Sept 30	\$ 419,043.47
	project implementation. Fee is inclusive of temporary office		
	accommodations for Veolia staff		
	Veolia has considerable resources and capability to support the Doard		
	through the emergency situation and will make such resources		
Resource & Pursonnel Auxiliability	available to the Board as it may require and Veolia has available (e.g.		
	Emergency Operator Support, Root Cause Fallure Analyses, etc.) This		
	stand by Task will only be undertaken with pre approval of the Board	30 Sep 2018	
	and will be agreed to before any additional support is provided.		
	Funding for this task will be provided as Change Orders to the existing		
	Contract Cap	Sotal	5 2,884,478 17

This amendment extends Veolia's current contract term to September 30, 2018. The amendment also authorizes an increase of fees by \$2,897,964.00 bringing the cumulative total of the contract to \$8,492,435.

Original Contract Award Amount:	\$3,000,000.00
Previous Approved Contract Amendments:	\$2,766,971.00
This Contract Amendment Amount:	\$2,884,478.00
Total Cumulative Dollar Contract Amendment Amount:	\$8,651,449.00
Contract DBE Participation	10%

Contract DBE Participation Forecasted DBE Participation

The Engineering Department has reviewed this proposal and is recommending it for approval.

Interim General Superintendent

I concur: Bruce Adams, P.E.

Date: 04/06/2018

11%

Cc:

Willie Mingo, Procurement Rosetta Thomas, Finance Director Eric Labat, Interim Chief of Operations Legal Dept.

# AMENDMENT No. 1 EMERGENCY PROFESSIONAL SERVICES AGREEMENT FOR FACILITIES CONDITION ASSESSMENT VEOLIA WATER NORTH AMERICA-SOUTH, LLC

### ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

AES# CN	Detailed Description	Fee	Funding Source
1	This second Amendment will focus on two categories of scope: (1) Condition Assessment Diagnostic Testing Gaps not completed during the period between August 25, 2017 and December 8, 2017 and (2) Continued Development of S&WB's Visibility Platform, which is the operations data backbone of the entire Sewerage & Water Board organization).  The specific scope line items are detailed in the table below and include a provision to provide as-needed additional engineering services, root cause analysis reports and potential staff augmentation during 2018 Hurricane season should funding allow. Each task of the scope of work allows for a 15% contingency to decrease the chance of requiring a change order and the contract is structured as a do-not-exceed, Time & Materials.  1a - Vibration  1b - Pump Capacity Testing  1c - Motor Circuit Analysis  1d - Vacuum Pump / System Assessment  1e - Structural Assessment  2 - Additional Potable Water Distribution, Level, Flow and Pressure Monitoring  3 - Visibility Platform Development Phase 1A  4 - Long Term Support of Pl  5 - Program Management  6 - As-Needed Resource / Services	\$ 2,884,478.00	System Funds Water - 5944,013,00 Wastewater - S597,016.2 Drainage - 51,343,446.8

CONTRACT DBE %		
Contract DBE%	10%	
Current DBE%	6%	
Projected DBE%	11%	

TOTAL	S	2,884,478.00
CONTRACT AMOUNT		
Original Contract Amount	\$	3,000,000.00
Amount of Previous Amendments	5	2,766,971.00
Amount of this Amendment	3	2,884,478.00
Amendments to date	s	5,651,449.00
DEVICED CONTRACT AMOUNT	·	8 651 449 00

It is mutually agreed to perform and accept the above revisions in accordance with the currently ammended contract and the applicable specifications for the above price.

Proposed By:

| Min Javier | Date | Date | Chief of Engineering | Date |



April 5, 2018

Subject: Amendment 2 - Veolia Emergency Services Condition Assessment

Dear Mr. Adams,

It is our pleasure to submit this contract amendment proposal to address testing gaps and follow-on work that resulted from the Condition Assessment of the drainage, power distribution and power generation systems executed by Veolia under an emergency order in contract executed on August 25, 2017.

While the Condition Assessment Report has been delivered on Friday, February 23, 2018 (i.e. the 2<sup>nd</sup> revision – the original version was submitted December 8, 2017), there are a number of remaining tests on assets that were not addressed due to numerous constraints including the short time frame outlined in the contract. The data from such tests enable S&WB to better predict and manage equipment that are in the process of failing and as a result, inform its maintenance program.

To further bolster its operations and ability to maintain the drainage system, Veolia's scope of work involved the development of a Visibility & Analytics platform that provided S&WB operations staff and executive management both local and remote visibility into core operating parameters of its drainage system. Indeed, during a recent emergency freeze weather event, water pressure data from the Pi platform - despite not being officially released — was utilized to monitor the situation and better communicate when pressure was likely to return in certain areas.

This combination of continued work to complete the Condition Assessment diagnostic testing gaps and to continue building an operations tool to more effectively manage the system in both emergency and non-emergency events is the subject of this proposal to amend the existing Condition Assessment contract.

Below, in the sections, (1) Scope of Work, (2) Breakdown of Additional Compensation and (3) Timeline to request to increase Veolia's existing contract cap from \$5,766,971 to \$8,651,449 (\$2,884,478 increase) as well as extend the contract term through September 30, 2018 is detailed in this proposal.

Note that the original Condition Assessment Report provided originally to the Board on December 8, 2017 will not be modified by the Scope of Work performed under this Second Amendment. Rather, any deliverables set forth below will be performed and reflect specifically the work described herein and set forth in the Second Amendment.

### (1) Scope of Work

The following table summarizes the proposed scope of work for this contract amendment. Rows 1 - 10 of the table below has an associated proposal attached as an appendix to this letter that details the associated scope of work, methodology, budget and schedule.



ask	Scope	Description	2018 Timeframe	"Am	SAFE
1a	Vibration	Assessment to identify abnormal or elevated vibration readings on rotating equipment components indicative of wear and other potential condition issues	March 1 July 27	s	64,505 80
1b	Pump Capacity Testing	Determine actual capacity of a pump to remove drainage water. This includes all outstanding drainage pumps, plus various others (powerhouse and underpass stations).	March 1 July 27	s	532,055.62
1¢	Motor Circuit Analysis	Determine if any motor circuits have insulation degradation or other electrical issues.	March 1 July 27	\$	38,630.80
18	Vacuum Pump / System Assessment	Determine the capabilities to effectively prime certain types of drainage pumps.	March 3 July 27	\$	11,620 98
le	Structural Assessment	Comprehensive structural assessment of buildings, concrete structures and the like	March 1 July 27	\$	108,530.10
2	Additional Potable Water Distribution System Pressure Monitoring	Develop visibility into the potable water distribution system operation as a whole is currently limited. This proposal includes the instillation / integration of extensive pressure monitoring, clearwell / elevated tank level monitoring and flow ineasurement equipment.	March 1 July 27	\$	346,996.72
3	Visibility Platfrom Development <u>Phase 1A</u>	Includes second phase of equipment installation of Meter I/Ds, which provides detailed status of pumps and surrounding equipment including feeder breakers, breakers to transformers in the station and status of bus the breakers. This also includes evolution of Software Development, Alarming System Development, Detailed Documentation Development and Hand Offs, Additional Interface Facilitation with Amry Corps SCADA and GSS and additional connection to 9 stations and the Plant Frequency Changer system.	March I July 27	\$	1,022,403.40
4	Long Term Support of PI	(1) provide long term technical support for all facets of the Visibility Platform; field wiring, meters, programmable logic controllers, communication systems, SCADA hardware and software, and data historiar development and functionality, and (2) accommodate a gradual transition of this technical support function to nominated S&WB employees	30 Sep 2018	s	340,691 28
5	Program Management	10% of total sub task costs. Deliver weekly progress reporting to management and operations staff of all origing tasks, deploy, manage and monitor requisite resources (Veolia and Subcontractors), provide single point of contact to S&WB for any questions related to the project implementation. Fee is inclusive of temporary office accommodations for Veolia staff	7 Months March 1 Sept 30	\$	419,043.47
6	Resource & Personnel Availability	veolia has considerable resources and capability to support the Board through the emergency situation and will make such resources available to the Board as it may require and Veolia has available (e.g. Emergency Operator Support, Root Cause Failure Analyses, etc.) This stand by Task will only be undertaken with pre approval of the Board and will be agreed to before any additional support is provided. Funding for this task will be provided as Change Orders to the existing Contract Cap	30-Sep 2018	s	2,884,478.1

### (2) Breakdown of Additional Compensation

The additional compensation is broken down into: (i) <u>Veolia Labor</u> (\$1,519.667.71), and (ii) <u>Subcontractor Costs</u> (\$1,364,810.46). Further detail of these costs is set forth below:



These fees represent 46.6% (\$1,343,448.89) for the drainage system, 20.7% (\$597,016.28) for the wastewater system and 32.7% for the water (\$944,013.00) system.

### I. Veolia Labor

Employee Last	Task No.	Task	Hours	Unburdened Rate * 3.38	Amount
Batterman, Stefan	2	Additional Pressure Monitoring	108	S220 91	\$23,858 28
Davoine IC	2	Additional Pressure Monitoring	96	\$269 31	\$25,853 76
Thomoson, Francis	2	Additional Pressure Monitoring	240	\$192 73	\$46,255 20
Lovera, Maurin	2	Additional Pressure Monitoring	120	\$166 04	519,924 80
Redden, Cameron	2	Additional Pressure Monitoring	156	\$175 38	\$27,359 28
Glover Peter	2	Additional Pressure Monitoring	144	5157,34	\$22,656 96
15% Contingency	2	Additional Pressure Monitoring	N/A	N/A	545,260 44
Johnson, Bill	3	Platform Dev 1A	1428	\$96 74	5138,144.72
Quirk, James	3	Platform Dev 1A	960	296 60	\$92,736.00
Redden, Cameron	3	Platform Dev 1A	400	\$175 38	\$70,152.00
Batterman, Stelan	3	Platform Dev 1A	448	5220 91	\$98.967.68
Davoine, JC	3	Platform Dev 1A	384	\$269 31	\$103,415.04
Contingency	3	Platform Dev 1A	N/A	N/A	\$40,000 00
Batterman, Stefan	4	Long Term Pi Support	360	\$220 91	\$79,527 60
Davoine, JC	4	Long Term Pi Support	288	\$269 31	\$77.561 28
Jahnson, Bill	4	Long Term Pi Support	360	\$96 74	534,826 40
Ouirk James	4	Long Term Pi Support	360	\$96 60	\$34,776.00
Contingency	4	Long Term Pi Support	N/A	N/A	\$15,000 00
Javier, Mia	5	Program Management	800	5216 75	\$173,400 00
Redden, Cameron	5	Program Management	417	5175 38	\$73,143 47
Harvey, Jeffrey	12	Vibration	155	\$216 40	\$33,542 00
15% Contingency	1a	Vibration	N/A	N/A	58,413 80
Gipver, Peter	16	Pump Capacity Testing	424	\$157.34	\$66,712 16
Redden, Cameron	16	Pump Capacity Testing	80	\$175 38	
15% Contingency	1b	Pump Capacity Testing	N/A	N/A	\$69,398 56
Harvey, Jettrey	1c	Motor Circuit Analysis	80	5216 40	517.312 00
15% Contingency	1c	Motor Circuit Analysis	N/A	N/A	\$5.038 BO
Higginbottom, Mark	1d	Vacuum Pump / System Assessment	60	5168 42	\$10,105 20
15% Contingency	1d	Vacuum Pump / System Assessment	N/A	N/A	_ 51.515 78
Harvey, Jeffrey	10	Structural Assessment	150	\$216,40	\$36,624.00
15% Contingency	1e	Structural Assessment	N/A	N/A	
				Total	\$1,519.667.71

### II. Subcontractor Costs

Yesh	Fanh	Subcontractor	Equipment / Service Directipition	Amount
1.	Vibratium	Arima	Shirt altron data analysis	523 524 7/3
18	Pump Sayle to Thirms	CC tynch	Fine Measurement & Assigns	5371,975 00
15	Pane Lumby Institut	Diele Stockstill	Traff Googe Salveying and Script Salving Components	525 210 00
-	Motor Land Adams	Auma	Setup and Analysis compression of the ASchrick Consideration and	\$ n 000 00
5.	Mount Curati Adalysis	Kayon Clark Electrical	Sharpanagtion and renot alament work intropressivatives.	54,402.00
14	Stracture Assessment	Middoush Engineering	Tarior fict of disconsistered	552,500 80
-	Crawin Manharan	Red Group	Pressure: Pluminary started to the integration of pressure munities	52 (12.0)
-	Parauty Monitoring	Red Group	Provide inagration of Medical	58 400 00
-	Premiuse Monitoring	Red Group	File Vestali file Desire and Communications Modules, 1960s	\$27,000 G3
-	Property Main tisting	The state of the s		
-		AND THE RESERVE AND ADDRESS OF THE PARTY OF	Pressure Translatory & Communications Modules	551 947 50
1	Pressure Transition on & Communications Modules  Pressure Transitions of Communications Modules  Pressure Transitions on the Pressure Transition of Communications Modules  Destination uppers. Metal (TO) which Experience Testing the Development Destination and Interestation of Testing and it I Development Destination of Communication of Communications on the Pressure Change and it I Development University of Communication of Communications on the Pressure Change and it I Development Testing On the Pressure of Adaptive Module Presset (T) Adaptive Module Pres		5131,900 00	
-	Water Name of TA	Interior STU		
-	The second secon	The second secon	Neter (7) Adaptes Module Frotector timbs	\$10,000.50
3	Fresh Development 1A	SATIC	Meter violator Plant Frequency Changer, 11 Grain age Furnis and spares	124,710,03
-	Some Term Pa Sugar-ti	Red Group	Electrical Malmoral absorber for held work in unbleshouting, etc.	\$8.0,000.00
	Lung Term P. Separat	Red Group	SCADA Biominal allowance for the screen development, croupleshopting, etc.	530 000 00
1	Frogram Management	The stoop	Temportury Citire Arrangement Fee	\$150 000 00
-	Frontam Management		25% Contragency on Temporary Office Arcangement Fee.	527 (8132
-	Visit at 168	Safer medical tion for at total a log		\$2,553,53
14	Karry Lacon Ly Test ng	National suction for a Maria Top		\$14.719.50
115_	Share Court Margers	Laborative to Senat Mark by		51 480 00
lt.	Major de la deservation de la constanta de la	Salas retrieven Salai Mark Up		13.252.00
14	Frequenchian turns	Sala pottes for fatal Mark to		512 148 00
-	Francisco IA	Salano Printer For at Michilly		\$17.14.26
21	Rang Term Colleges 1	Sub-commune Table Mark Up		59 000 00
5	Provide to contract of the contract of	The state of the s	Folsi	\$1,164,110,46



### (3) Warranties

Any equipment warranties will be provided directly from the manufacturer to the Board, or where applicable, provided to Veolia and then assigned to the Board. The Board will have no ability to make any warranty claims directly against Veolia with respect to any equipment procured under this additional scope of work.

### (4) <u>Timeline</u>

The term extension request for this amendment is to September 30, 2018 from April 30, 2018.

The majority of the scope of work is intended to be complete before the beginning of the hurricane season (June 1, 2018). Major milestones have been set for this date for most tasks, with final wrap up set for July 27, 2018. Long Term Support of Pi (Task 4) is an exception to these dates with a deadline extending through most of hurricane season and ending on September 30, 2018.

We sincerely appreciate your timely attention to this request.

Kind Regards,

Mia Javier Project Director

Veolia North America

Min Dan

### Attachments:

- 1. Vibration Scope, Resources and Schedule Detail
- 2. Pump Capacity Testing Scope, Resources and Schedule Detail
- 3. Motor Circuit Analysis Scope, Resources and Schedule Detail
- 4. Vacuum Pump / System Assessment Scope, Resources and Schedule Detail
- 5. Structure Assessment Scope, Resources and Detail Schedule
- 6. Additional Potable Water Dist. System Pressure Monitoring Proposal
- 7. Visibility Platform Development Phase 1A Proposal
- 8. Long Term Support of Pi Proposal
- 9. Draft Second Amendment Contractual Paperwork
- 10. CA Memo from CoE to DGSO Board Paperwork
- 11. Veolia SOC Form and MEMO Board Paperwork
- 12. R-XXX-2018 Veolia CPM Extension Board Paperwork
- 13. DE CA MEMO GSO to Exec Dir Board Paperwork



April 3, 2018

Subject: **VIBRATION ASSESSMENT TESTING GAP** – Scope, Methodology, Resources & Schedule

### Scope:

The following assets at the following locations will be the subject of completing the Vibration assessment diagnostic testing:

Test Type	Process / Cocation	Testing Gap Syscoption	Test Lype	Process / Location	Testing Gap Description
1a - Vibration	Boiler Process	Boller Feed Water Pump 6	1a - Vibration	Makeup Water Process	Emergency Well Pump 1
1a - Vibration	Boiler Process	Boller Feed Water Pump 8	1a - Vibration	Makeup Water Process	Emergency Well Pump 2
ta - Vibration	Boiler Process	Boiler Feed Water Pump 9	1a - Vibration	Power Distribution (Carrollton)	Frequency Changer 2
1a - Vibration	DPS 01	Vacuum Pump 1	1a - Vibration	Steam Turbine Process	Turbine 1 Condensate Pump
1a - Vibration	DPS 02	Pump D	1a - Vibration	Steam Turbine Process	Turbine 1 Circulating Pump
1a - Vibration	DPS 03	Constant Duty Pump 1	1a - Vibration	Steam Turbine Process	Turbine 4
1a - Vibration	DPS 03	Constant Duty Pump 2	1a - Vibration	UPS Broad	Pump 1
1a - Vibration	DPS 04	Pump E	1a - Vibration	UPS Broad	Pump 2
Ia - Vibration	DPS 04	Constant Duty Pump	1a - Vibration	UPS Canal	Pump 1
la - Vibration	DPS 04	Vacuum Pump 6A	1a - Vibration	UPS Canal	Pump 2
la - Vibration	DPS 04	Vacuum Pump 6B	1a - Vibration	UPS Canal	Pump 3
1a - Vibration	DPS 06	Constant Duty Pump 1	1a - Vibration	UPS Franklin	Pump 1
la - Vibration	DPS 06	Constant Duty Pump 2	1a - Vibration	UPS Franklin	Pump 2
la - Vibration	DPS 06	Pump I	1a - Vibration	UPS Hospital	Pump 1
1a - Vibration	DPS 06	Vacuum Pump 1	1a - Vibration	UPS Hospital	Pump 2
1a - Vibration	DPS 06	Vertical Pump 1	1a - Vibration	UPS Marconi	Pump 1
1a - Vibration	DPS 06	Vertical Pump 2	1a - Vibration	UPS Marconi	Pump 2
1a - Vibration	DPS 06	Vertical Pump 4	1a - Vibration	UPS New Carrollton	Pump 1
la - Vibration	DPS 07	Horizontal Pump D	Ia - Vibration	UPS New Carroliton	Pump 2
La - Vibration	DPS 12	Vacuum Pump 1	1a - Vibration	UPS Old Carrollton	Pump 1
la - Vibration	DPS 12	Vacuum Pump 2	1a - Vibration	UPS Old Carrollton	Pump 2
1a - Vibration	DPS 13	Pump 3	1a - Vibration	UPS Old Carrollton	Pump 3
1a - Vibration	DPS 16	Vertical Pump 3	1a - Vibration	UPS Paris	Pump 1
1a - Vibration	DPS 17	Pump D	1a - Vibration	UPS Paris	Pump 2
1a - Vibration	DPS 19	Horizontal Pump 1	1a - Vibration	UPS Paris	Pump 3
1a - Vibration	DPS 19	Horizontal Pump 2	1a - Vibration	UPS Pontchartrain	Pump 1
1a - Vibration	DPS 19	Horizontal Pump 3	1a - Vibration	UPS Pontchartrain	Pump 2
1a - Vibration	DPS 19	Vacuum Pump 1	1a - Vibration	UPS Pontchartrain	Pump 3
1a - Vibration	DPS Grant	Vertical Pump 2	1a - Vibration	UPS Press	Pump 1
1a - Vibration	DPS Grant	Vertical Pump 4	1a - Vibration	UPS Press	Pump 2
1a - Vibration	DPS Dwyer	Raw Water Pump	1a - Vibration	UPS Press	Pump 3
1a - Vibration	DPS I-10	Constant Duty Pump	1a - Vibration	UPS St. Bernard	Pump 1
la - Vibration	Gas Turbine Process	Gas Compressor	1a - Vibration	UPS St. Bernard	Pump 2

### Methodology:

Subcontract with vibration assessment experts Azima DLI to apply their WATCHMAN™ Reliability services program to the remaining S&WB assets listed above. This program was used in the first round of condition assessment work performed by Veolia.



### Pre-requisites:

All listed assets will need to be operated by S&WB fully loaded at a time coordinated with Veolia test personnel for testing to proceed. Veolia will require full access to these assets while in operation to perform testing. Veolia will not be in charge of the operation of any equipment.

### **Deliverables:**

Vibration assessment data capture by specialist Veolia staff for analysis by Azima DLI experts. Final deliverable will be a narrative for each asset encompassing asset condition and any identified condition deficiencies and recommended remedial actions.

### Required Resources & Associated Fees:

### **Veolia Labor** I.

Employee	Description	Total Hours	Unburdened Rate * 3.38	Total
Jeff Harvey	Vibration subject matter expert	155	\$216.40	\$33,542.00
	CAPCIT		Sub Total	\$33,542.00

### **Subcontractor** II.

Subcontractor	Subcontractor Cost Category	Rate	Amount
Azima DLI			\$20,500.00
AZIIIIA DEI		Sub Total	\$20,500.00

Cost Category: Vibration Assessment	Amount
Veolia Labor	\$33,542.00
Equipment	\$0.00
Subcontractor Services	\$20,500.00
Equipment and Subcontractor Mark Up (10%)	\$2,050.00
Subto	al \$56,092.00
Continues (1FP/)	\$8,413.80
Contingency (15%)	\$64,505.80

Schedule:

Assuming start date of April 18, 2018, testing will be completed and data provided by July 27, 2018.

P: 781.938.0707 F: 781.935.0179

April 5, 2018

Veolia North America 6501 Florida Avenue New Orleans, LA 11815

Dear Derek,

This document serves to outline the pricing of the additional vibration analysis and motor current testing to be performed by Azima. The components of this work are grouped as: (1) Rented Equipment, (2) Vibration analysis related services, and (3) Motor current testing related services. The pricing of each component is detailed below, all prices are listed in USD.

### Component 1 – Rented Equipment

Item	\$/Ea	Qty.	Componen	tiotai
3 Month Rental - CA10 Vibration Data Collector	2000	1		2000
5 Month Rental CATO VIBRATION DELL STATES	1	otal	\$	2,000

### Component 2 – Vibration Analysis

### On-Site Assistance of Data Collection for UPS and other assets listed

Item	\$/Ea		Qty.	Component Total	
Per Diem	\$	50	7	\$	350
Hotel (per night)	\$	150	6	\$	900
Flight	\$	400	1	\$	400
Rental Car (per day, includes estimated gas)	\$	75	7	\$	525
Travel Time (per day)	\$	720	2	\$	1,440
Daily Rate	\$	1,600	7	\$	11,200
Incidentals (airport parking, baggage, etc.)	\$	185	1	\$	185
melderitals (and a second			Total	\$	15,000

### **Analysis and Report Creation**

item	\$/Ea		Qty	Compon	ent Total
Vibration Analysis for 66 Machines	\$	45	66	\$	3,000
Database grooming and report creation	\$	500	1	\$	500
Database grooming and reperture	-		Total	\$	3,500

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### Component 3 – Motor Current Testing

### On-Site Testing and Data Collection for 21 motors

Item	\$/E	а	Qty.	Component To	
Per Diem	\$	50	2	\$	100
Hotel (per night)	\$	150	2	\$	300
Flight	\$	400	1	\$	400
Rental Car (per day, includes estimated gas)	\$	75	1	\$	75
Travel Time (per day)	\$	720	2	\$	1,440
Daily Rate	\$	1,600	2	\$	3,200
Incidentals (airport parking, baggage, etc.)	\$	185	1	\$	185
			Total	\$	5,700

### **Analysis and Report Creation**

Item	\$/Ea	Qty.	Compo	onent Total
21 Motor Current Analyses	100	21	\$	2,100
Report Creation	200	1	\$	200
	T	otal	\$	2,300

The grand total for all work detailed in this report is \$28,500. This includes all estimated T&E and serves as a not-to-exceed figure for the work to be performed. Please contact your Azima representative with any additional questions.

Sincerely,

John Vetrano Sales Engineer Azima, Inc

Office: 339-227-6226 Mobile: 774-571-9794 Fax: 206-842-7667

jvetrano@AzimaGlobal.com www.AzimaGlobal.com



April 4, 2018

Subject: PUMP CAPACITY TESTING GAP - Scope, Methodology, Resources & Schedule

### Scope:

The following assets at the following locations will be the subject of completing the Pump Capacity testing:

Test type	Process / Location	Testing Gap Description	Test Type	Process / Location	Testing Gap Description
1b - Pump Capacity Testing	Boller Process	Boller Feed Water Pump 5	1b - Pump Capacity Testing	DPS 19	DPS19-HP1-PMP
	Boller Process	Boller Feed Water Pump 6	1b - Pump Capacity Testing	DPS 19	DPS19-HP2-PMP
1b - Pump Capacity Testing	Boiler Process	Boiler Feed Water Pump 7	1b - Pump Capacity Testing	DPS 19	DPS19-HP3-PMP
1b - Pump Capacity Testing		Boller Feed Water Pump 8	1b - Pump Capacity Testing	DPS 19	DPS19-VTP1-PMP
1b - Pump Capacity Testing		Boller Feed Water Pump 9	1b - Pump Capacity Testing	DPS 19	DP\$19-VTP2-PMP
1b - Pump Capacity Testing		DPS01-CD1-PMP	1b - Pump Capacity Testing	DPS Dwyer	DPSDWY-VTP1-PMP
1b - Pump Capacity Testing		DPS01-CD2-PMP	1b - Pump Capacity Testing	DPS Dwyer	DPSDWY-VTP3-PMP
1b - Pump Capacity Testing		DPS01-HPA-PMP	1b - Pump Capacity Testing	DPS Grant	DPSGRT-VTP1-PMP
1b - Pump Capacity Testing	DPS 01	DPS01-HPB-PMP	1b - Pump Capacity Testing	DPS Grant	DPSGRT-VTP2-PMP
1b - Pump Capacity Testing	DPS 01	DPS01-HPC-PMP	1b - Pump Capacity Testing	DPS Grant	DPSGRT-VTP4-PMP
1b - Pump Capacity Testing		DPS01-HPD-PMP	1b - Pump Capacity Testing	DPS Grant	DPSGRT-VTP5-PMP
16 - Pump Capacity Testing		DPS01-HPE-PMP	1b - Pump Capacity Testing	DPS Grant	DPSGRT-VTP6-PMP
1b - Pump Capacity Testing		DPS01-HPF-PMP	1b - Pump Capacity Testing	Makeup Water Process	Emergency Well Pump 1
1b - Pump Capacity Testing		DPS01-HPG-PMP	1b - Pump Capacity Testing	Makeup Water Process	Emergency Well Pump 2
1b - Pump Capacity Testing		DPS01-VTP1-PMP	1b - Pump Capacity Testing	Steam Turbine Process	Turbine 1 Circulating Pump
1b - Pump Capacity Testing		DPS01-VTP2-PMP	1b - Pump Capacity Testing	UPS Broad	Pump 1
1h - Pump Capacity Testing		DPS02-HPA-PMP	1b - Pump Capacity Testing	UPS Broad	Pump 2
1b - Pump Capacity Testing		DPS02-HPC-PMP	1b - Pump Capacity Testing	UPS Canal	Pump 1
1b - Pump Capacity Testing		DPS02-HPD-PMP	1b - Pump Capacity Testing	UPS Canal	Pump 2
1b - Pump Capacity Testing		DPS03-CD1-PMP	1b - Pump Capacity Testing	UPS Canal	Pump 3
1b - Pump Capacity Testing		DPS03-CD2-PMP	1b - Pump Capacity Testing	UPS Franklin	Pump 1
1b - Pump Capacity Testing	DPS 03	DPS03-HPA-PMP	1b - Pump Capacity Testing	UPS Franklin	Pump 2
1b - Pump Capacity Testing	DPS 03	DPS03-HPB-PMP	1b - Pump Capacity Testing	UPS Hospital	Pump 1
1b - Pump Capacity Testing		DPS04-CD1-PMP	1b - Pump Capacity Testing	UPS Hospital	Pump 2
1b - Pump Capacity Testing		DPS04-HPC-PMP	1b - Pump Capacity Testing	UPS Marconi	Pump 1
1b - Pump Capacity Testing		DPS04-HPD-PMP	1b - Pump Capacity Testing	UPS Marconi	Pump 2
1b - Pump Capacity Testing	DPS 04	DPS04-HPE-PMP	1b - Pump Capacity Testing	UPS New Carrollton	Pump 1
1b - Pump Capacity Testing	DPS 05	DPS05-CD2-PMP	1b - Pump Capacity Testing	UPS New Carrollton	Pump 2
1b - Pump Capacity Testing		DPS05-HPB-PMP	1b - Pump Capacity Testing	UPS Old Carrollton	Pump 1
1b - Pump Capacity Testing		DPS06-CD1-PMP	1b - Pump Capacity Testing	UPS Old Carrollton	Pump 2
1b - Pump Capacity Testing		DPS06-CD2-PMP	1b - Pump Capacity Testing	UPS Old Carroliton	Pump 3
1b - Pump Capacity Testing		DPS06-HP8-PMP	1b - Pump Capacity Testing	UPS Paris	Pump 1
1b - Pump Capacity Testing	DPS 06	DPS06-HPH-PMP	1b - Pump Capacity Testing	UPS Parls	Pump 2
1b - Pump Capacity Testing		DPS06-HPI-PMP	1b - Pump Capacity Testing	UPS Paris	Pump 3
1b - Pump Capacity Testing	DPS 06	DPS06-VTP3-PMP	1b - Pump Capacity Testing	UPS Pontchartrain	Pump 1
1b - Pump Capacity Testing		DPS07-CD1-PMP	1b - Pump Capacity Testing	UPS Pontchartrain	Pump 2
1b - Pump Capacity Testing		DPS07-CD2-PMP	1b - Pump Capacity Testing	UPS Pontchartrain	Pump 3
1b - Pump Capacity Testing		DPS07-HPA-PMP	1b - Pump Capacity Testing	UPS Press	Pump 1
1b - Pump Capacity Testing	DPS 12	DPS12-HPD-PMP	1b - Pump Capacity Testing	UP5 Press	Pump 2
1b - Pump Capacity Testing	DPS 13	DPS13-HP6-PMP	1b - Pump Capacity Testing	UPS Press	Pump 3
1b - Pump Capacity Testing		DPS15-VTP1-PMP	1b - Pump Capacity Testing	UPS St. Bernard	Pump 1
1b - Pump Capacity Testing		DPS15-VTP2-PMP	1b - Pump Capacity Testing	UPS St. Bernard	Pump 2

### Methodology:

Subcontract with flow measurement experts CC Lynch to apply industry standard flow measurement techniques to measure the capacities of the remaining S&WB assets listed above. This program was used in the first round of condition assessment work performed by Veolia. Modifications to the initial program were developed with S&WB staff to include the following requirements for future testing:



- Verify Net Positive Suction Head (NPSH) requirements where possible prior to performing tests
- Verify staff level gauges at all sites prior to further testing
- Liaise with S&WB instrumentation teams to verify that existing level measurement equipment is accurately measuring and calibrated prior to each test.
- Modify the suction and discharge level measurement process during testing now that the Pi data historian is established to ensure accurate level measurements are used corresponding to the actual test period.
- Account for level discrepancies when identified, during testing, from factors such as suction draw down, high differential level across bar screens, etc.
- Perform many initial tests using multiple technologies where possible to improve confidence in measure flow readings (e.g. establish two ADCP measurement locations for a single test and verify results from many tests are commensurate with one another).

Other modifications to the manner in which flow data is presented in final reporting will also be as agreed with S&WB staff.

### Pre-requisites:

All listed assets will need to be operated – fully loaded – by S&WB at a time coordinated with Veolia test personnel for testing to proceed. Veolia will require full access to these assets while in operation to perform testing. Veolia will not be in charge of the operation of any equipment.

### **Deliverables:**

Pump capacity assessment data capture and analysis by CC Lynch experts. Final deliverable will be a narrative for each asset encompassing capacity test results with total testing accuracy ranges applied.

### Required Resources & Associated Fees:

### I. Veolia Labor

Employee	Description	Total Hours	Unburdened Rate * 3.38	Total
Peter Glover	Pump Capacity Testing Lead	344	\$157.34	\$54,124.96
Peter Glover	Staff gauge surveying	80	\$157.34	\$12,587.20
Cameron Redden	Project Management	80	\$175.38	\$14,030.40
		77.	Sub Total	\$80,742.56



### II. Subcontractor

Veolia will subcontract flow measurement and analysis components of the scope to CC Lynch. Estimated costs for this component are outlined in the table below. Based on standard rates, it is \$281,975.00 plus allowances.

Veolia will subcontract Staff Gauge surveying and verification components of the scope to Dale Stockstill & Associates, Professional Land Surveyors (DS&A). Quoted cost for this component is \$25,220.00.

Subcontractor	Subcontractor Cost Category Rate		Amount
CC Lynch	Flow Measurement & Analysis		\$281,975.00
CC Lynch	Duplicate Testing Allowance for		\$15,000.00
	verification of technology and that		
	readings are commensurate between		
	different locations on many initial		
	tests		
CC Lynch	Allowance for unavoidable		\$25,000.00
	inefficiencies such as those		
	experienced during the initial		
	assessments due to factors such as		
	weather, unexpected equipment		
	trips and the like causing tests to be		
	unsuccessful and have to be re-		
	attempted		
DS&A	Staff Gauge surveying and		\$25,220.00
	verification		
Sub Total			\$347,195.00

Cost Category: Pump Capacity Testing		Amount
Veolia Labor		\$80,742.56
Subcontractor Services		\$347,195.00
Equipment and Subcontractor Mark Up (10%)		\$34,719.50
	Subtotal	\$462,657.06
Contingency (15%)		\$69,398.56
	Total	\$532,055.62

### Schedule:

Assuming start date of April 18, 2018, testing will be completed, and data provided by July 27, 2018.



April 5, 2018

Veolia North America C/O Mia Javier 53 State Street Boston, MA 02109

RE: Proposal for New Orleans S&WB Veolia Amendment 2

Dear Mia

This document is our proposal to complete work under direction of Veolia North America for the New Orleans Sewer and Water Board project Amendment 2 flow measurements.

It is our understanding that this phase of the project will be divided into 3 parts being:

- 1. DPS pump measurements (49 tests)
- 2. UPS pump measurements (27 tests)
- 3. Powerhouse pump measurements (8 tests)

#### DPS Pump Measurements (49 tests):

The DPS pump flow tests (49) will be completed using 3 different instruments that utilize various technologies. The instruments that we proposed for this project are Acoustic Doppler Current Profilers or ADCP's (i.e. Teledyne RDInstruments RiverPro and StreamPro), Clamp-on ultrasonic flow meter for closed pipe applications (i.e. Flexim Fluxus F601), and Non-contact Laser flow meter for open channels (i.e. TeledyneIsco LaserFlow 360). Furthermore during the flow test an "In-situ AquaTroll 200" water quality sensor will be installed on the upstream side and downstream side of the pump station to measure and record water level, water temperature, water conductivity and water salinity.

Thirty-two (32) of the DPS tests will be measured by one crew using the ADCP instruments to measure discharge/flow in either the receiving or discharge canal at the pump stations. In addition there will be 3 tests that will be also using 2 crews with ADCP instruments in-order to make measurements upstream and downstream of that pump station because of the physical characteristics of that location. ADCP instrumentation will be moved across the canals in floats via taglines installed at each location needed during the mobilization phase. ADCP crews will consist of 3 personnel; 1 ADCP operator, 1 instrument technician and 1 general technician.

Additionally, three (3) tests/measurements will be performed using a Laser Flow meter which will be installed on the pump station outfall canal to measure and record water level, water velocity, and water discharge/flow.

The final 11 flow measurements at the DPS stations will be performed on closed pipe locations within the station. One crew consisting of 2 personnel will be used to perform these measurements with a Flexim clamp-on flow meter (Fluxus F601). For these tests sensors will be temporarily attached to the outside of the pipe and meter programmed appropriately for the application. The meter will measure water velocity and using programmed information, calculate a flow and record that data at required intervals.

#### UPS Pump Measurements (27 tests):

The UPS pump flow tests will be performed using a crew with 2 personnel (1 meter operator and 1 instrument technician) and the Flexim clamp-on flow meter (Fluxus F601) on either the intake or discharge pipe. There will be 27 tests at 10 different locations and measurements will be taken through the full operational range of each pump. As previously described, sensors will be temporarily attached to the outside of the pipe and meter programmed appropriately for the application. The meter will measure water velocity and use the programmed information to calculate a flow and record that data at required intervals.

In addition to the flow measurements, an "In-Situ AquaTroll 200" water quality sensor will be temporarily installed in the catch basin of the pump station to measure and record water level during the pump measurements.

#### Powerhouse Pump Measurements (8 tests):

The power house pump flow tests will be performed using a crew with 2 personnel (1 meter operator and 1 instrument technician) and the Flexim clamp-on flow meter (Fluxus F601) on either the intake or discharge pipe. There will be 8 tests done at the Powerhouse location only. No additional sensors will be required.

CCLynch is anticipating the use of only its own staff for this scope of work. The following is a list of base load personnel to be utilized on-site. Data QA/QC and report writing will be performed off-site.

Project Manager/Report writer: Chris Simon – CCLynch – Field Services Director QA/QC data specialist: Brandon Dalton – CCLynch – Coastal Texas Sales and Service Manager ADCP/Flexim operators:

Luke Jones - CCLynch - Southern AL, FL, MS service technician Zach Harrington - CCLynch - Louisiana sales and service technician

Brandon Dalton - CCLynch - Coastal Texas sales and service manager

Instrument Technicians:

Jimmy Allen – CCLynch – Repair shop lead technician

Chris Bourque – CCLynch – S. Louisiana Field Technician

Garren Hubbert - CCLynch - N. Alabama Field Technician

Geoff Montzingo - CCLynch - Repair shop technician

General Technicians:

Ian DeGrunchy - CCLynch - Mississippi Office shop laborer

CCLynch does have other staffing resources that can be utilized for this work if conditions require additional personnel. We work with several local consulting companies that have assisted us in the past and that are proficient in the techniques and use of instrumentation necessary to perform these tests. They will be used only if needed and crew roasters will be provided if and when that is necessary.

Below is the cost breakdown for the scope of work described above.

NOTE: Reinstallation and removal of ADCP taglines and floodwall anchors as per permit is included in Mob/Demob/Setup line item.

DPS Pumps (49)		Dai	ly Rate	Days		Total							
ADCP Cres	W	\$ 6	5,500.00	18	_	117,000.00							
Mob/Demol	o/Setup	\$ 3	3,100.00	8	\$	24,800.00							
Flexim Crev	NS	S 3	3,100.00	5	\$	15,500.00	l						
Data Repor	t/QAQC	\$ 1	00.000,1	40	\$	40,000.00	l						
Project Mgr	mt	\$ 1	00.000,1	30	\$	30,000.00							
Equipment r							ļ						
	ADCP	\$	750.00	18	\$	13,500.00	ļ						
AquaTro	1 200(2)	\$	150.00	18	\$	2,700.00	l						
Las	ser Flow	\$	200.00	5	\$	1,000.00	l						
	Flexim	\$	200.00	5	\$	1,000.00	l						
Materials/	/Supplies				\$	6,000.00							
UPS Pumps (27)													
Flexim Crev	ws		3,100.00	5	\$	15,500.00	l						
Data Repor	t/QAQC	\$	1,000.00	2	\$	2,000.00	1						
Project Mg	mt	\$_	1,000.00	2	\$	2,000.00	1						
Equipment :					_		ļ						
	Flexim	\$	200.00	5	\$	1,000.00							
Aqua	Troll 200	\$	75.00	5	\$	375.00							
Power House Pumps (8)					I		1						
Flexim Cre	ws	\$ :	3,100.00	2	\$	6,200.00	1						
Data Repor	rt/QAQC	\$	1,000.00	2	\$	2,000.00	ļ						
Project Mg	mt	\$	1,000.00	11	\$	1,000.00	1						
Equipment	rental						1						
	Flexim	\$	200.00	2	\$	400.00	-						
Duplicate Testing Allowance								\$ 					
Allowance for unavoidable inefficient	cies					281,975.00		\$ 					

Thank you for the opportunity to work with your group again and we look forward to providing the highest level of service to you. Let me know if you have any questions.

Chris Simon – Field Service Director

February 22, 2018

Mr. Cameron Redden

Re: Estimate for Surveying Services to verify all staff gauges at the S&WB of New Orleans drainage pumping stations. 24-stations, 48-gauges

Cameron: The following is my breakdown of the estimated cost to verify and provide proper elevations to Cairo Datum of each staff gauge at each drainage pumping station.

#### FIELD SURVEYING SERVICES

- Survey Control- set one(1) horizontal & vertical control benchmark utilizing static GPS sessions processed through OPUS. Each session will be a minimum of 2.25 hours.
- Determine vertical positions of the two(2) staff gauges at each site (time is estimated with static session) - 4.5 hours
- Travel time to & from City of New Orleans per day. 2 hours.

#### QA/QC, FINAL DRAWINGS

- Process 24 GPS static sessions through OPUS, adjust coordinates to Cairo Datum- 14 hours.
- Create Final Report of each staff gauge including pictures and surveying methods. 14 hours

#### **ESTIMATE TOTALS**

(We anticipate being able to survey 2 stations per day, 4 gauges per day)

- Survey Control- 54 hours @ \$130 p/h= \$7,020.00
- Determine vertical coordinates, setup & collect data- 4.5 hours x 24 sites= 108 hours @ \$130 p/h for 2 man crew= \$14,040.00
- Travel Time 2 hours x 12 days @ \$80 p/h for 2 man crew = \$1,920.00
- Process 24 GPS static session and adjust coordinates to Cairo Datum.- 14 hours @ \$80 p/h= \$1,120.00
- Create Final Reports- 14 hours @ \$80 p/h= \$1120.00
- Total Not-To-Exceed Price for Surveying Services = \$25,220.00

Project can be completed & delivered within 30 business days of notice-to-proceed, weather permitting.

I hope this estimate is acceptable as we would really like to work with you on this project.

Sincerely,

Chad H. Cutrer, PLS



April 3, 2018

Subject: MOTOR CIRCUIT ANALYSIS TESTING GAP - Scope, Methodology, Resources & Schedule

#### Scope:

The following assets at the following locations will be the subject of completing the Motor Circuit Analysis diagnostic testing:

Test Type	Process / Location	Testing Gap Description
1c - MCA	Boiler Process	Boiler Feed Water Pump 8
1c - MCA	DPS 01	Constant Duty 1
1c - MCA	DPS 01	MG Set 1
1c - MCA	DPS 04	Pump D
1c - MCA	DPS 04	Constant Duty 1
1c - MCA	DPS 04	Vacuum Pump 1B
1c - MCA	DPS 04	Vacuum Pump 6C
1c - MCA	DPS 06	M/G Set 3
1c - MCA	DPS 07	Constant Duty Pump 1
1c - MCA	DPS 07	Constant Duty Pump 2
1c - MCA	DPS 19	Horlzontal Pump 1
1c - MCA	DPS Elaine	Vertical Pump 1
1c - MCA	Makeup Water Process	Emergency Well Pump 1
1c - MCA	Makeup Water Process	Emergency Well Pump 2
1c - MCA	Steam Turbine Process	Turbine 1 Condensate Pump
1c - MCA	TBD	S&WB Selected Motor to Re-Test 1
1c - MCA	TBD	S&WB Selected Motor to Re-Test 2
1c - MCA	TBD	S&WB Selected Motor to Re-Test 3
1c - MCA	TBD	S&WB Selected Motor to Re-Test 4
1c - MCA	TBD	S&WB Selected Motor to Re-Test 5
1c - MCA	UPS New Carrolton	Pump 1

#### Methodology:

Subcontract with motor circuit analysis experts Azima DLI to conduct offline analysis of motors associated with the assets listed above using specialist motor circuit analysis test equipment.

All electrical disconnection and reinstatement work will be conducted by subcontractor Kevin Clark Electrical in accordance with the S&WB clearance procedures. This program was used in the first round of condition assessment work performed by Veolia.

#### Pre-requisites:

All listed assets will need to be released by S&WB to Veolla for testing to proceed. This will include a brief period of electrical disconnection while actual testing is performed.



DPS 4 Constant Duty Pump 1 and Vacuum Pump 1B should both be cleaned prior to testing. Previous tests have already been attempted but were inconclusive due to the condition of the motors.

#### Deliverables:

Motor circuit analysis data capture and interpretation by Azima DLI experts. Final deliverable will be a narrative for each asset encompassing asset condition and any identified condition deficiencies and recommended remedial actions.

### Required Resources & Associated Fees

#### I. Veolia Labor

Employee	Description	Total Hours	Unburdened Rate * 3.38	Total
Jeffrey Harvey	Subject matter expert Motor Circuit Analysis	80	\$216.40	\$17,312.00
,,,,,,			Sub Total	\$17,312.00

#### II. Subcontractor

Subcontractor	Subcontractor Cost Category	Rate	Amount
Azima DLI	Setup and Analysis components of the Motor Circuit Analysis	\$	\$8,000.00
Kevin Clark Electrical	Disconnection and reinstatement work components of Motor Circuit Analysis	\$85.00	\$6,800.00
	•	Sub Total	\$14,800.00

Cost Category: Motor Circuit Analysis	Amount
Veolia Labor	\$17,312.00
Equipment	\$0.00
Subcontractor Services	\$14,800.00
Equipment and Subcontractor Mark Up (10%)	\$1,480.00
Subtota	\$33,592.00
Contingency (15%)	\$5,038.80
Tota	\$38,630.80

Schedule:

Assuming start date of April 18, 2018, testing will be completed and data provided by July 27, 2018.

### Kevin Clark Electrical Services, LLC

370 IRIS AVENUE JEFFERSON, LA 70121

985.727.0559 Phone 985.727.0560 Fax

kevin@kjces.com La. State Lic. #43010

www.kjces.com

"A Professional Electrical Contractor"!

Proposal

Date	Proposal#
4/5/2018	3596

Name / Address

Veolia North America Municipal and Commercial Business 53 State Street 14th floor Boston, MA 02109 Assisting with MCA Testing on various motors in the New Orleans Area

Description	Cost
Kevin Clark Electrical Services (KCES) will provide assistance in Motor Circuit Analysis testing on approximately 21 separate motors for Pump Stations in the New Orleans area as described below.	
Includes:  Working hours 7:00 am - 3:30 pm  Proper PPE and Lockout/Tagout procedures  Verification of unit that is de-energized, isolated and locked out prior to MCA equipment attached to the motor(s)	
Exclusions: - Any overtime hours or weekend work -Material, Additional safety equipment rentals/requirments	
Labor per hour: \$72.00/man	
Do Not Exceed per Veolia	6,800 00
TERMS AND CONDITIONS:	
1. Supervision of Work: The Client agrees that the direction and supervision of all Work rest exclusively with the contractor. Any attempt to deal directly with any of Contractor's hired laborers or any other act, which interferes with the completion of the Work under this Agreement, shall be a breach of this Agreement.  2. Changes or Alterations: This provision applies only to Lump Sum Contracts, as changes to the Scope of Work on a Time and Materials Contract is billed to the Client on a Time and Material Basis. Any and all changes, alterations, additions, subtractions or alternatives to the Scope of Work on a Lump Sum Contract may or may not be in writing, but shall increase or decrease the contract sum to the extent that work is added or subtracted from the Scope of Work.	

### Kevin Clark Electrical Services, LLC

**370 IRIS AVENUE** JEFFERSON, LA 70121

985.727.0559 Phone 985.727.0560 Fax kevin@kjces.com La. State Lic. #43010

www.kjces.com

# Proposal

Date	Proposal#
4/5/2018	3596

### "A Professional Electrical Contractor"!

Name / Address

Veolia North America Municipal and Commercial Business 53 State Street 14th floor Boston, MA 02109

**Project** Assisting with MCA Testing on various motors in the New Orleans Area

Description	Cost
3.Payment: All payment is due date of submitted invoice. 4.Late Charge and Interest on Delinquent Payments: Should the Client fail to make payments as agreed herein, or fail to pay for any change, alteration or extra as provided herein, said delinquent payments or any unpaid portion thereof shall be subject to a late charge in the amount of one hundred and 00/100 (\$100.00) dollars per month, and interest calculated at the rate of twelve (12%) per annum, calculated and compounded daily, until paid, and the Client agrees to pay said late charge and interest directly to the Contractor. 5.Attorney's Fees: If the Contractor is required to hire an attorney to enforce this contract, or to represent itself in any capacity with any relation to this Contract, the Client agrees to pay the Contractor's actual attorney's fees if the Contractor is the prevailing party. 6.Indemnifications: To the fullest extent permitted by law, the Client shall indemnify, defend and hold harmless Contractor, and its agents, subcontractors, members and employees, from and against any and all claims, damages, losses, and expenses, including but not limited to claims related to attorney's fees, arising out of or related to the Work, including, but not limited to, any and all claims, damages, losses and expenses caused in whole or in part by negligent or wrongful acts or omissions of, including the defects in design by others and the inadequacy of materials and equipment specified and supplied by others, or breach of this Agreement by, the Client, any of its subcontractors, and/or anyone directly or indirectly employed by them and anyone whose acts they are legally responsible.  7.Termination of Contract: Should the Work be stopped by any authority for a period of thity (30) days or more, or should the Work be stopped through the act or neglect of the Client for a period of ten (10) days, or should the Client fail to pay the Contractor any payment when due, then the Contractor may stop Work and/or terminate the Contract and recover from the Clie	
Total	

### Kevin Clark Electrical Services, LLC

**370 IRIS AVENUE** 

Municipal and Commercial Business

985.727.0559 Phone 985.727.0560 Fax kevin@kjces.com La. State Lic. #43010

Name / Address

Veolia North America

53 State Street 14th floor

www.kjces.com

JEFFERSON, LA 70121

### "A Professional Electrical Contractor"!

Project

Assisting with MCA Testing

on various motors in the

New Orleans Area

Pro	0	0	S	al
	-	_	_	

Date	Proposa <b>i</b> #
4/5/2018	3596

Boston, MA 02109			
	Description		Cost
to circumstances beyond its control; (3) of Any changes to this Agreement must be sengage subcontractors to perform work hand remains responsible for this Contract will not be held liable for any personal properties that the contract shall be governed by the law working hours, between 8 AM and 4:30 I business; (9) This written Contract is the Contract, if declared invalid, shall not affile.	Contractor is an independent signed by both Contractor and ereunder, provided Contractor; (6) Client is responsible for coperty damaged, stolen, lost was of the State of Louisiana; PM, Monday through Friday, a entire Agreement between the fect the validity of the remain at executed within 30 days of ling Date for Substantial Contractors.	contractor shall not be flather for any detay due contractor and not an employee of the Client; (4 d Client; (5) Contractor may at its discretion or is responsible for payment to the subcontractor all personal property at the Site, and Contractor and/or otherwise affected during the Term; (7) (8) The Contractor will work during normal and not overtime or outside of these hours of the Parties; and (10) Any provisions of the ader of this Agreement.	r
Date	Date		
		Total	\$6,800.00

Page 3



March 2, 2018

Subject: VACUUM TESTING GAP - Scope, Methodology, Resources & Schedule

#### Scope:

The following assets at the following locations will be the subject of completing the Vacuum Pump / System diagnostic testing:

Testing Gap - Category	Oralinage System Category	Process/Location	- Yesting Gap - Description	Test Court
Vacuum Pump / System Assessment	Drainage Pumping Station	DPS 12	Vacuum Pump 2 (mods needed to test)	1
Vacuum Pump / System Assessment	Drainage Pumping Station	DPS 13	Vacuum Pump 4, Vacuum Pump 5, Emergency Vacuum Pump (mods needed to test)	3
Vacuum Pump / System Assessment	Drainage Pumping Station	DP5 11	Vacoum Pump 1 (25Hz)	1
Vacuum Pump / System Assessment	Drainage Pumping Station	DP501	Vacuum Pump 3A (mods needed to test)	1
Vacuum Pump / System Assessment	Drainage Pumping Station	DP504	Vacuum Pump 6B (If retained to service)	1
Vacuum Pump / System Assessment	Drainage Pumping Station	DP\$06	Vacuum Pump 1 (if returned to service), Vacuum Pump 4 (configured for pressure only, not vacuum - mods needed)	2

#### Methodology:

Veolia vacuum system assessment expert Mark Higginbottom will assess the remaining S&WB assets listed above. This approach was used in the first round of condition assessment work performed by Veolia.

#### Pre-requisites:

All listed assets will need to be operated by S&WB fully loaded at a time coordinated with Veolia test personnel for testing to proceed. Veolia will require full access to these assets while in operation to perform testing. Veolia will not be in charge of the operation of any equipment.

S&WB will need to implement the following repairs / modifications in order for testing to proceed:

Asset	Required Repair / Modification
DPS01 Vacuum Pump 3A	Need to install a pressure gauge on the other side of the isolation valve to be able to perform dead head test
DPS04 Vacuum Pump 6B	Repair and return to service to enable unit to be tested
DPS06 Vacuum Pump 1	Repair and return to service (seal water supply line has failed and work order already in place with S&WB to repair line)
DPS06 Vacuum Pump 4	Reconfigure to provide vacuum rather than current pressure arrangement to test vacuum capabilities
DPS11 Vacuum Pump 1	Operate 25Hz generator to supply power to enable unit to be tested



DPS12 Vacuum Pump 2	Test gauge and isolation valve installation needed to perform tests
DPS13 Vacuum Pump 4	Replace clutch pad to return unit to service for testing
DPS13 Vacuum Pump 5	Replace clutch pad to return unit to service for testing
DPS13 Emergency Vacuum Pump	Need to be able to isolate in order to test, modification needed (isolation valve)

#### **Deliverables:**

Vacuum Pump / System assessment data capture and analysis by Veolia expert. Final deliverable will be a narrative for each asset encompassing asset condition and any identified condition deficiencies and recommended remedial actions.

### Required Resources & Associated Fees:

#### 1. Veolia Labor

Employee	Total Hours	Unburdened Rate * 3.38	Amount
Higginbottom, Mark	60	\$168.42	\$10,105.20
		Total	\$10,105.20

Cost Category: Vacuum Assessment		Amount
Veolia Labor		\$10,105.20
Equipment		\$0.00
Subcontractor Services		\$0.00
Equipment and Subcontractor Mark Up (10%)		\$0.00
	Subtotal	\$10,105.20
Contingency (15%)		\$1,515.78
Continue ( Lave)	Total	\$11,620.98

### Schedule:

Assuming start date of March 5, 2018, testing will be completed, and data provided by July 27, 2018.



March 2, 2018

Subject: STRUCTURAL ASSESSMENT TESTING GAP - Scope, Methodology, Resources & Schedule

#### Scope:

The following assets at the following locations will be the subject of completing the Structural assessment:

Testing Gap - Catego	Drainage System Category	Process / Location	Testing Gap - Description
Structural Assessment	Carrollton Frequency Changer	Carrollton Frequency Changer Building	Structural specialist assessment of buildings, concrete structures, etc.
SCI-BICS SHAPE CANAL CAN	Central Control	Central Control Building	Structural specialist assessment of buildings, concrete structures, etc.
ti deterai i i i i i i i i i i i i i i i i i i	Drainage Pumping Station	DFS 10	Structural specialist assessment of buildings, concrete structures, etc.
	Drainage Pumping Station	DPS 11	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 12	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 13	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 14	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 15	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 16	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 17	Structural specialist assessment of buildings, concrete structures, etc.
structural Assessment	Drainage Pumping Station	DPS 18	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	OPS 19	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS 20	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment		DPS Dwyer	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS Elaine	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS Grant	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS I-10	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	IDP5 Oleander	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Orainage Pumping Station	DPS Pritchard	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	IDPS01	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS02	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DP502	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS04	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Oralinage Pumping Station	DP505	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS06	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	DPS07	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Drainage Pumping Station	Gas Compressor Building	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Gas Compressor	Plant Frequency Changer Building	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Plant Frequency Changer	Powerhouse Building	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Powerhouse	Turbine 6 Building	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Turbine 6	LIPS Broad	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Underpass Drainage Pumping Station		Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Underpass Drainage Pumping Station	UPS Canal UPS Franklin	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment			Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Underpass Drainage Pumping Station	UPS Hospital	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Underpass Drainage Pumping Station	UPS Marconi UPS New Carrollton	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Underpass Drainage Pumping Station		Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Undernass Drainage Pumping Station	UPS Old Carroliton	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment		UPS Paris	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment		UPS Pontchartrain	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment		UPS Press	Structural specialist assessment of buildings, concrete structures, etc.
Structural Assessment	Underpass Drainage Pumping Station	UPS St. Bernard	Can the entire absertance asserts at a sense of the sense

#### Methodology:

Subcontract with structural assessment experts Middough Engineering to assess the S&WB assets listed above, including buildings, wet wells, dry wells, intake structures, outfall structures and other concrete structures associated with the drainage system.



#### Pre-requisites:

All listed assets will need to be visited and assessed in detail, including accessing all locations associated with each site (e.g. wet wells, dry wells, access vaults, etc.) at a time coordinated with assessment personnel for their assessments to proceed. Veolia will require full access to these assets during the assessment, including support from S&WB as required to adequately access the sites (including such actions as lifting access covers, manhole covers, opening locked doors, etc.). Veolia will not be in charge of any access.

#### **Deliverables:**

Structural assessment data capture and analysis by Middough Engineering structural experts. Final deliverable will be a narrative for each asset encompassing asset condition and any identified condition deficiencies and recommended remedial actions.

### Required Resources & Associated Fees:

#### Veolia Labor l.

Employee	Description	Total Hours	Unburdened Rate * 3.38	Total
Jeffrey Harvey	Subject matter expert on structural assessment	160	\$216.40	\$36,624.00
Tidivey	001 400 401		Sub Total	\$36,624.00

#### Subcontractor H.

Subcontractor	Subcontractor Cost Category	Rate	Amount
Middough	Structural Assessment experts		\$52,500.00
Engineering		Sub Total	\$52,500.00

Cost Category: Structural Assessment	Amount
	\$36,624.00
Veolia Labor	\$0.00
Equipment	\$52,500.00
Subcontractor Services	\$5,250.00
Equipment and Subcontractor Mark Up (10%)	
Subtotal	\$94,374.00
Contingency (15%)	\$14,156.10
Total	\$108,530.10

Assuming start date of March 5, 2018, testing will be completed and data provided by July 27, 2018.



February 27, 2018

Veolia North America Asheville, NC 28801

Attention:

Cameron Redden, Project Manager- Technical Support

Subject:

New Orleans Buildings: Structural Assessment

Dear Mr. Redden,

Middough Inc. is pleased to offer this proposal for New Orleans Buildings Structural Assessment Inspection Services.

The services requirements were presented by Veolia via email on February 20, 2018. The services definition will be in accordance with the Veolia information and our understanding of the requirements as outlined in the attached Scope of Services.

We propose to provide the professional services described herein on a Time and Materials basis in accordance with General Terms and Conditions used for the recent Richmond Inspection Services Project, which is attached. Veolia will only be charged for actual time worked plus expenses.

Estimated Labor Hours (field time).	200-260 hours
Estimated Labor Hours (Report/Office Time)	.120-160 hours
Estimated Expenses	\$ 7,500.00
(Seven Thousand Five Hundred Dollars)	PIL .

I trust this proposal accurately describes your project requirements. We look forward to your favorable review and assure you that Veolia will receive our dedicated attention to the successful implementation of this project. If you require any additional information, please feel free to contact me directly.

Cordially yours,

Middough Inc.

Alan D. Jones

Alan D. Jones Senior Project Manager

Cc:

Project File (VE1801P)

Jim Volk, Alan Jones, Bill Jackman

Attachments: (Scope of Services, Terms and Conditions)



Veolia North America New Orleans Buildings Structural Assessment Inspection Middough Reference No. VE1801P February 27, 2018 Page 1 of 2

#### **SCOPE OF SERVICES**

Middough Inc. will provide the Inspection services for the New Orleans Buildings: Structural Assessment as defined by the Veolia email instructions dated February 20, 2018 and our understanding of the services as outlined herein. These services generally include field inspection, structural reports, and project management only as itemized below.

#### **PURPOSE**:

Veolia was engaged by the S&WB in mid-2017 to perform a condition assessment of the S&WB's critical drainage system assets. Veolia has been asked to expand this assessment to include buildings and structures associated with the drainage system (drainage pumping stations, underpass pumping stations, power generation facilities, etc.). As a result, Veolia needs to make a general assessment of the condition of the buildings and structures that are within the drainage system scope. Most buildings are simple brick construction or basic equipment shelter type facilities, but there is a large powerhouse building and a number of larger drainage pumping stations which are older and need to be looked at a little more closely. The intent of the work is to evaluate the buildings and structures for any immediate needs structurally or obvious concerns (to a structural engineer) as well as to provide some guidance on the general maintenance needs over the next 20 years. There are roughly 40 structures to review. Where possible, Veolia would also like to have the structural assessment include things such as wet wells, dry wells, intake structures, outfall structures, etc. These are typical appurtenances to the stations which will need to be included to provide a full picture of each site.

#### REFERENCE DOCUMENTATION:

List of Buildings provided by Veolia via email on 2/20/18

#### PROJECT APPROACH

- On-site kick off meeting and general review of objectives
- Walk down/examination of each building and structures including the drainage system structures
- Provide written report with backup photos and other documents on the conditions of the building/structures and recommended action plan (near and long term)
- Review report with Veolia, provide updates and modification to report as needed

#### **DELIVERABLES**

- Summary of observations and findings
- Detailed description of each buildings assessment
- Opinion of current condition and major issues
- List by Building of recommendations for near term and long term repairs or modifications
- Backup documentation, including indexed photos and field notes

#### ASSUMPTIONS, CLARIFICATIONS, AND UNKNOWNS:

- Middough will only review structural items that are readily accessible
- Veolia or others will provide, if needed or requested, aerial equipment for close up review of elevated structures
- Middough provides for its personnel PPE that includes hard hat, safety glasses, hearing protection, steel toed shoes and certain gas monitors.
- Lodging expenses are estimated at \$120 per night including taxes using Department of Labor information for the New Orleans, LA area.



Veolia North America New Orleans Buildings Structural Assessment Inspection Middough Reference No. VE1801P February 27, 2018 Page 2 of 2

- Meals and Incidental Expense are estimated for the New Orleans area at \$75 per day for ten (10) days.
- Travel Expenses from Cleveland, OH to New Orleans, LA are estimated to be \$425/ round trip.
- Labor hours are estimated without having performed a walkdown of the buildings in question.

### INSPECTION SERVICES PLAN:

- Travel to New Orleans Site on Sunday or Monday
- Begin Structural Inspection on Monday (AM or PM) and complete on Friday AM.
- Return to Cleveland on Friday PM
- Return to New Orleans the next week and repeat as required
- Complete Inspection Report to Veolia within two weeks after final trip or sooner.

#### PROJECT MANAGEMENT:

- Serve as the primary interface between the Veolia and Middough project teams.
- Provide engineering project management for general coordination and periodic progress reporting.
- Complete project accounting and invoicing.



April 4, 2018

Mr. Bob Turner
Interim Team Coordinator
Sewerage & Water Board of New Orleans
8800 S. Claiborne Ave.
New Orleans, LA 70118

Subject: QUOTATION TO INSTALL AND INTEGRATE POTABLE WATER DISTRIBUTION SYSTEM PRESSURE, LEVEL AND FLOW MONITORING EQUIPMENT FOR THE SEWERAGE AND WATER BOARD (S&WB)

Mr. Turner,

Per your request, we are submitting this budgetary proposal to (1) install potable water distribution system pressure monitoring equipment, (2) incorporate existing level monitoring equipment into S&WB's visibility platform and (3) reinstate existing flow measurement equipment at the following locations:

	Equipment Type	Location	Total Estimated Cost
1	Pressure Monitoring	<ul> <li>NOFD Fire Stations (10 select locations)</li> <li>Drainage Pumping Stations 4, 10, 14, 17, 20 and Pritchard</li> <li>Sewerage Pumping Station A</li> <li>Mobile Pressure Monitoring Units (4 battery powered units total)</li> <li>S&amp;WB sewerage pumping stations (Integration of existing pressure switch data only)</li> </ul>	\$142,000
2	Level Monitoring (assume that all level monitoring equipment is existing and that this information will be captured as-is rather than installing new equipment)	<ul> <li>Carrollton Water Purification Plant</li> <li>Pumping Station Clearwells</li> <li>Sycamore Filter Gallery Clearwell</li> <li>Claiborne Filter Gallery Clearwell</li> <li>Claiborne Storage Tanks</li> <li>Westbank</li> <li>Westbank Clearwell</li> <li>Westbank High Lift Suction</li> <li>Westbank Elevated Tank</li> </ul>	\$19,000



Flow Measurement
(assume that existing Venturi
type flow measurement devices
can be reinstated)

- Carrollton Water Purification Plant
  - High Lift 30", High Lift 36", Leonidas 50", Panola 48", Sycamore 43.31", Gen Ogden 50"
- Westbank
  - West Bank Power 20" High Lift,
     West Bank Power 24" High Lift Main,
     West Bank Power 36" High Lift

\$141,000

The work proposed herein would be additional scope under the Task 6 Visibility & Analytics Platform Development that was part of the Emergency Professional Services Agreement (the "EPSA") entered into as of August 25, 2017 between the Sewage and Water Board of New Orleans ("S&WB") and Veolia Water North America-South, LLC.

The S&WB has asked Veolia to (1) investigate a means of monitoring potable water distribution system pressure, water levels, and flows at select locations, (2) install approved pressure monitoring, level monitoring and flow measurement equipment and (3) integrate the pressure monitoring, level monitoring and flow measurement equipment within the systems installed under Task 6, including the Pi data historian. The installation will involve the following:

- Review of available drawings, GIS data, and related files associated with the Carrollton Water Purification Plant, Algiers Water Purification Plant and potable water distribution systems
- 2. Identification of preferred pressure monitoring solutions and installation locations
- 3. Extraction and linking of existing level monitoring signals
- 4. Reinstatement of existing flow measurement equipment
- 5. Liaise with S&WB staff for approval to proceed
- 6. Installation and integration of new equipment<sup>1</sup>
- 7. Documentation and reporting

#### Timeline:

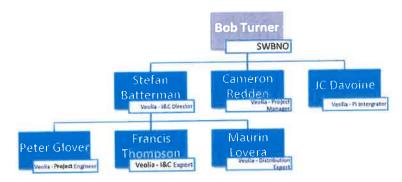
Final integration will be complete within 5 weeks of the approval of the Proposal.

#### The Team:

Veolia will work under the oversight of the Sewerage & Water Board Interim Team Coordinator.

Installation and integration to include (1) pressure monitoring: threading approved pressure transducers into existing tap locations and mounting of communications equipment only, (2) level monitoring: no equipment installations included assuming that all existing equipment can be used (appropriate level monitoring transducers can be installed in suitable locations if deemed necessary as outlined below), and (3) flow measurement: reinstating existing Venturl style flow measurement devices and mounting of communications equipment only. Any civil works, installation of level monitoring equipment, new tapping into distribution mains or other pipes for pressure monitoring equipment, replacement of existing flow sensing pipework, installation of access vaults, traffic management, running of conduit, hard wiring, reinstatement, etc. shall be either managed and delivered by 1) S&WB, or 2) Veolia as change order work on a case-by-case basis.





The skill set of the team members highlighted in blue in the above organization chart is summarized below:

- Stefan Batterman is a Director of Automation and Integration for Veolia North America and routinely leads instrumentation installation and integration efforts.
- JC Davoine is a Senior Director of Operations Technology for Veolia North
  America and routinely leads instrumentation installation and integration efforts.
  JC will have limited involvement in the project as the Pi data historian integration lead.
- Francis Thompson is a Controls / Automation Engineer with Veolia North America and has assisted in numerous instrumentation installation and integration efforts at Veolia North America facilities.
- Maurin Lovera is a Network & Distribution Manager with Veolia North America and has extensive distribution system expertise.
- Cameron Redden is an electro-mechanical engineer with experience in design and construction of instrumentation projects at Veolia North America facilities.
- Peter Glover is a professional engineer with experience in design and construction of instrumentation projects at Veolia North America facilities as well as external clients.

#### Fees:

Compensation for the installation and integration of the instrumentation included within the scope of this proposal for the S&WB will be paid at the rates and in accordance with the Emergency Professional Services Agreement EPSA.

Veolia cost of services per individual is as follows:

Person	Unburdened * 3.38
Stefan Batterman	\$ 220.91
JC Davoine	\$ 269.31
Francis Thompson	\$ 192.73
Maurin Lovera	\$ 166.04
Cameron Redden	\$ 175.38
Peter Glover	\$ 157.34



External sub-contracts to Veolia and materials have been marked as per the agreed upon 10% rate within the EPSA for Facilities Condition Assessment. A detailed breakdown and summation of costs is provided below.

			Hours						4
Organization	Person			Week 1	Week 2	Week 3	Week 4	Week 5	
Veolia	Stefan Batterman - I&C Director			24	24	24	24	12	
Veolia	JC Davoine - Pi Integration			12	12	24	24	24	
Veolia	Francis Thompson - I&C Expert			60	60	60	36	24	1
Veolia	Maurin Lovera - Distribution Expert			60	36	24	0	0	
Veolia	Cameron Redden - Project Manager			60	36	24	24	12	
Veolia	Peter Glover - Project Engineer			0	60	60	24	0	
			Cost						
Organization	Person	Per Hour		Week 1	Week 2	Week 3	Week 4	Week 5	Į
Veolia	Stefan Batterman - I&C Director	\$221		\$5,301.84	\$5,301.84	\$5,301.84	\$5,301.84	\$2,650.92	
Veolia	JC Davoine - Pi Integration			\$6,463.44					
Veolia	Francis Thompson - I&C Expert	\$193		\$11,563.80	\$11,563.80 \$11,563.80 \$6,938.28		\$4,625.52		
Veolia	Maurin Lovera - Distribution Expert	45 244 44 45 254 25 65 65		\$0.00	1				
Veolia	Cameron Redden - Project Manager	\$175		\$10,522.80	\$6,313.68	\$4,209.12	\$4,209.12	\$2,104.56	
Veolia	Peter Glover - Project Engineer	\$157		\$0.00	\$9,440.40	\$9,440.40	\$3,776.16	\$0.00	1
		Su	b-Contracto	ers					
Plumbing	Integrating pressure	4hrs	21 units	\$7,140.00	* Assume 21	pressure insta	ils		
Electrical	Integrating electrical, etc. 4hrs 21 units			\$8,400.00	* Assume 21 pressure installs				
Flow Meter	Reinstate, integration, comms	-	9 units	\$27,000.00	* Assume 9 fl	ow meter rein	statements		
			Materials						
Pressure trans	ducers and communications modules (21 u	nit quate fro	m Ayyeka)	\$53,940.00	* Assume 21	units total			
	nsducers and communications modules (\$5			\$0.00	* Assume all	will be pulled	from existing		
	iru) flow devices and communications mod			\$27,000.00	* Assume 9 u	nits total			
	low devices and communications modules			\$0.00	* Assume 0 u	nits total, can	be added as a	hange order	J
	s	ub-Contract	or Mark-Up	\$4,254.00	\$0.00	\$0.00	\$0.00	\$0.00	
		Mater	lels Mark-Up	\$8,094.00	\$0.00	\$0.00	\$0.00	\$0.00	
		Total	Per Week	\$176,410.56	\$41,828.88	\$40,963.56	\$26,688.84	\$15,844.44	Total
		15% (	ontingency					\$45,260.44	\$346,9

Total Estimated Cost of Services: \$346,996.72

Sincerely,

Mia Javier **Project Director** 

Mya Daw

Veolia



### Appendix: Instrumentation Overview

#### **Pressure Monitoring**

The proposed pressure monitoring solution was developed with Veolia instrumentation and distribution system experts and is based on installing remote pressure transducers which will communicate via cellular networks and be captured into SCADA. Exact installation locations will be developed and proposed to S&WB for acceptance prior to proceeding. The units come as a package estimated at \$3,000 purchase per device (21 devices total for the base option, number of devices TBD for extended option). Ongoing costs include annual cellular communications plans at approximately \$250 per device per year. Hardwired installations will be performed preferentially where practically possible. Where hardwiring is not the best option, the units will be battery powered (approximately 2 year life, easy to replace). Assumption is that suitable installation locations exist for each installation and that the installation effort will be limited to threading approved pressure transducers into existing tap locations and mounting of communications equipment only. 110 V AC power availability is also assumed.

#### **Level Monitoring**

The following instruments are assumed to be maintained, functional and suitable for direct use in the data historian. The assumption is that no equipment installation, communications infrastructure, etc. will be necessary. Existing instrument list:

- CLEAR WELL LEVEL (F\_CV)
- CLAIBORN.TANK\_EV.F\_CV
- TANKS LEVEL (F\_CV)
- Clear Well Level at Sycamore (F\_CV)
- SYCAMORE CW\_OFFSET\_CALC.F\_CV
- West Bank Power CW Storage Level (F\_CV)
- West Bank Power Elevated Tank Level (F\_CV)
- West Bank Power High Lift Suction (F\_CV)

Appropriate level monitoring transducers can be installed in suitable locations if deemed necessary by S&WB. Any such installations shall be either managed and delivered by 1) S&WB, or 2) Veolia as change order work on a case-by-case basis.

#### Flow Measurement

The proposed flow measurement solution was developed with Veolia instrumentation and pumping system experts and is based on reinstating existing Venturi type differential pressure flow meters or installing new non-invasive clamp on style flow meters. The assumption with existing Venturi type meters is that basic reinstatement of water lines and installation of new differential pressure cells is all that will be required to obtain an accurate flow measurement. This extends to assuming that such an option will be possible for current High Lift 30", High Lift 36", Leonidas 50", Panola 48", Sycamore 43.31", Gen Ogden 50, West Bank Power 20" High Lift, West Bank Power 24" High Lift Main and West Bank Power 36" High Lift meters. Exact equipment options and installation locations will be developed and proposed to S&WB for acceptance prior to proceeding. Costs associated with reinstating existing Venturi type meters are difficult to predict at this point — assumption is that the delivered cost will be \$5,000 per unit. This includes re-using existing Venturi devices, sensing pipework, instrument cabinets, space heaters, etc. 110V AC power availability is also assumed at each location. Installations will be limited to replacing differential pressure cells and establishing data



communications only. Any significant increase in individual meter reinstatement cost will be treated as a change order on a case-by-case basis, including such items as 1) if sensing lines are determined to need to be replaced, 2) if 110V AC is unavailable and alternative power and space heating options are needed, etc. Hardwired installations will be performed in all cases unless wireless options offer a more cost effective solution.

No allowance has been provided for the installation of new clamp on style flow meters. Any such installations will be treated as a change order on a case-by-case basis. If installations are deemed necessary, the assumption would be that suitable installation locations exist and that installations will only require physically mounting the units and providing basic communications infrastructure. The clamp on style flow meters come as a package estimated at \$15,250 purchase and specialist installation per device. Additional costs will be incurred if installation locations are limited, and any additional flow measurement equipment is required and / or if submersible transducers are required.



### Appendix B: Extended Options - Estimated Cost TBD

	Manitoring Equipment	
	Monitoring Equipment	Location
1	Pressure Monitoring	<ul> <li>Remaining NOFD Fire Stations (additional stations as desired by S&amp;WB)</li> <li>S&amp;WB sewerage pumping stations – installation of new pressure monitoring equipment and integration into existing SCADA system</li> <li>S&amp;WB St. Joseph's Office</li> <li>Other distribution system monitoring locations desired by S&amp;WB – includes wireless options not necessarily physically located at existing S&amp;WB facilities</li> </ul>
2	Level Monitoring (assume that all level monitoring equipment is existing and that this information will be captured as-is rather than installing new equipment)	<ul> <li>Additional devices as desired by S&amp;WB for items such as filter levels and levels in any other pertinent locations to support distribution system management</li> </ul>
3	Flow Measurement (assume that existing Venturi type flow measurement devises can be reinstated, or alternatively, that clamp on style flow measurement devices can be installed)	<ul> <li>Additional devices as desired by S&amp;WB for items such as individual filter flows, backwash flows, raw water flows, etc.</li> <li>Clamp on style ultrasonic flow measurement devices if deemed necessary (e.g. if an existing Venturi flow meter cannot be reinstated).</li> </ul>

Additional integration type services can be offered for items such as:

- Incorporating the EMD monitoring system in the Pi data historian
- Incorporating additional equipment status and operational information in the Pi historian which may be relevant for distribution system management (pump operating status, pump power, filter status, turbidity, chlorine residual, etc.)
- Any other integration needs that S&WB may have to support distribution system management

Additional scope items will be treated as a change order on a case-by-case basis.



#### Appendix: Instrumentation Overview

**Pressure Monitoring** 

The proposed pressure monitoring solution was developed with Veolia instrumentation and distribution system experts and is based on installing remote pressure transducers which will communicate via cellular networks and be captured into SCADA. Exact installation locations will be developed and proposed to S&WB for acceptance prior to proceeding. The units come as a package estimated at \$3,000 purchase per device (21 devices total for the base option, number of devices TBD for extended option). Ongoing costs include annual cellular communications plans at approximately \$250 per device per year. Hardwired installations will be performed preferentially where practically possible. Where hardwiring is not the best option, the units will be battery powered (approximately 2 year life, easy to replace). Assumption is that suitable installation locations exist for each installation and that the installation effort will be limited to threading approved pressure transducers into existing tap locations and mounting of communications equipment only. 110 V AC power availability is also assumed.

**Level Monitoring** 

The following instruments are assumed to be maintained, functional and suitable for direct use in the data historian. The assumption is that no equipment installation, communications infrastructure, etc. will be necessary. Existing instrument list:

- CLEAR WELL LEVEL (F\_CV)
- CLAIBORN.TANK\_EV.F\_CV
- TANKS LEVEL (F\_CV)
- Clear Well Level at Sycamore (F\_CV)
- SYCAMORE.CW\_OFFSET\_CALC.F\_CV
- West Bank Power CW Storage Level (F\_CV)
- West Bank Power Elevated Tank Level (F\_CV)
- West Bank Power High Lift Suction (F\_CV)

Appropriate level monitoring transducers can be installed in suitable locations if deemed necessary by S&WB. Any such installations shall be either managed and delivered by 1) S&WB, or 2) Veolia as change order work on a case-by-case basis.

#### Flow Measurement

The proposed flow measurement solution was developed with Veolia instrumentation and pumping system experts and is based on reinstating existing Venturi type differential pressure flow meters or installing new non-invasive clamp on style flow meters. The assumption with existing Venturi type meters is that basic reinstatement of water lines and installation of new differential pressure cells is all that will be required to obtain an accurate flow measurement. This extends to assuming that such an option will be possible for current High Lift 30", High Lift 36", Leonidas 50", Panola 48", Sycamore 43.31", Gen Ogden 50, West Bank Power 20" High Lift, West Bank Power 24" High Lift Main and West Bank Power 36" High Lift meters. Exact equipment options and installation locations will be developed and proposed to S&WB for acceptance prior to proceeding. Costs associated with reinstating existing Venturi type meters are difficult to predict at this point — assumption is that the delivered cost will be \$5,000 per unit. This includes re-using existing Venturi devices, sensing pipework, instrument cabinets, space heaters, etc. 110V AC power availability is also assumed at each location. Installations will be limited to replacing differential pressure cells and establishing data communications only. Any



significant increase in individual meter reinstatement cost will be treated as a change order on a case-by-case basis, including such items as 1) if sensing lines are determined to need to be replaced, 2) if 110V AC is unavailable and alternative power and space heating options are needed, etc. Hardwired installations will be performed in all cases unless wireless options offer a more cost effective solution.

No allowance has been provided for the installation of new clamp on style flow meters. Any such installations will be treated as a change order on a case-by-case basis. If installations are deemed necessary, the assumption would be that suitable installation locations exist and that installations will only require physically mounting the units and providing basic communications infrastructure. The clamp on style flow meters come as a package estimated at \$15,250 purchase and specialist installation per device. Additional costs will be incurred if installation locations are limited, and any additional flow measurement equipment is required and / or if submersible transducers are required.



### Appendix B: Extended Options - Estimated Cost TBD

	Monitoring Equipment Type	Location
1	Pressure Monitoring	<ul> <li>Remaining NOFD Fire Stations (additional stations as desired by saws)</li> <li>S&amp;WB sewerage pumping stations – installation of new pressure monitoring equipment and integration into existing SCADA system</li> <li>S&amp;WB St. Joseph's Office</li> <li>Other distribution system monitoring locations desired by S&amp;WB – includes wireless options not necessarily physically located at existing S&amp;WB facilities</li> </ul>
2	Level Monitoring (assume that all level monitoring equipment is existing and that this information will be captured as-is rather than installing new equipment)	<ul> <li>Additional devices as desired by S&amp;WB for items such as filter levels and levels in any other pertinent locations to support distribution system management</li> </ul>
3	Flow Measurement (assume that existing Venturi type flow measurement devises can be reinstated, or alternatively, that clamp on style flow measurement devices can be installed)	<ul> <li>Additional devices as desired by S&amp;WB for items such as individual filter flows, backwash flows, raw water flows, etc.</li> <li>Clamp on style ultrasonic flow measurement devices if deemed necessary (e.g. if an existing Venturi flow meter cannot be reinstated).</li> </ul>

Additional integration type services can be offered for items such as:

- Incorporating the EMD monitoring system in the Pi data historian
- Incorporating additional equipment status and operational information in the Pi historian which may be relevant for distribution system management (pump operating status, pump power, filter status, turbidity, chlorine residual, etc.)
- Any other integration needs that S&WB may have to support distribution system management

Additional scope items will be treated as a change order on a case-by-case basis.



### QUOTE

From

Ayyeka, Inc.
One Gateway Center, Suite 2600
Newark, NJ, 07102
USA
sales@ayyeka.com
+1 (310) 876-8040

Bill To:

Melissa Ordoyne Veolia North America 6501 Florida Ave New Orleans, LA 70117 stefan.batterman@veolia.com +1 504 277 5400/+1 504 234 8219

Job#	Quote #	Date Prepared
VeoliaNOLA01	20180405DD-1	04/05/2018

Est Shipping	Payment Terms
4 - 6 weeks after receipt of PO	Net 30 Days

Ship To

Mellssa Ordoyne Veolla North America 6501 Florida Ave New Orleans, LA 70117 stefan.batterman@veolla.com +1 504 277 5400/+1 504 234 8219

Subject: Wavelet Pressure Kits

Model #	Description	Qty	Unit Price	Total Price
WA0111	Basic Wavelet - Combined  Wavelet Device with (1) 8-pin Analog Port, (1) 8-pin Serial Port, (1) 5-pin Discrete Port & Wavelet Activator  2G/3G/4G Global SIM Card Internal Lithium Battery Installation Hardware External Power Connector	21	\$1,799	\$37,779
SE000130	Pressure Sensor, 0 - 6.9 bar (0-100 psl), 4.5m (15 ft) cable.	21	\$305	\$6,405
WA00150	External AC Adapter 110V - 240V, 2A, US Wall Plug (Type A), M8 3-Pin Female Connector, 60" Cord (Set of 5)	21	\$160	\$3,360
ASP - 01	Ayyeka Service Plan  Cellular Service Plan  Two-Way Cyber-Secure GPRS/GSM Data Transmission & Encryption  Embedded GPS  Web-Based User-Interface  SCADA Integration  E-Mall/SMS Threshold Alerts  Phone/Email Customer Support  Over-the-Air Configuration & Updates	21	\$250	\$5,250

Sub-Total	\$52,794
S&H	\$1,146
TOTAL Due	\$53,940

	Terms	2	Co	ndí	Itio	n:
--	-------	---	----	-----	------	----

- 1. Price does not include taxes and duties or shipping & handling unless otherwise noted.
- 3. Ayyeka is available via phone and email for customer service and support.
- 4. This proposal is subject to the conditions of Ayyeka's Terms of Use.
- 5. Unless otherwise noted, payment terms are Net 30.
- Ayyeka Service Plan fees with this quotation shall be prorated based upon date of custody transfer of inventory or as found on Purchase Order, whichever is earlier.
- 7. Renewal of the Ayyeka Service Plan Is on January 31st of each year, and invoices are issued 60 days In advance of that date. Failure to pay on or about this date (January 31st) may result in suspension of service.
- 8. This Quotation will expire 30 days from the Date Prepared.

Customer Acceptance (sign below):

x
Print Name:
x
Importer Information (EIN, SSN, VAT, GST, or RFC if available):

Comments

If you have any questions about this price quote, please contact: sales@ayyeka.com | +1 (310) 876-8040 Ext. 205

We Look Forward to Working With You!



April 05, 2018

Mr. Cameron Redden Veolia North America

Re: Sewerage & Water Board of New Orleans Drainage Pump Station Improvements

Mr. Redden,

Remont Engineering & Design Group, LLC is pleased to present an estimate for pressure and flow monitoring, platform development 1A, and long term Pi support.

The Proposal, Quotations, and details of the services and materials to be provided are attached on the following pages.

Thank you for the opportunity to earn your business.

Sincerely,

Jake Mattix Business Development Manager



SL-001 03FEB2014 REV 1

Project:

**S&WB Drainage Pump Station Improvements** 

Doc #: Date: VEO1705-SL001-006

05 APR 2018

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3.0	GENERAL ASSUMPTIONS	.5



SL-001 03FEB2014 REV 1

Project:

**S&WB Drainage Pump Station Improvements** 

Doc #: Date:

VEO1705-SL001-006

05 APR 2018

Page #:

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#### 1.0 PROPOSED PROJECTS

#### 1.1 Pressure Monitoring

SWBNO is adding monitoring points along the water distribution system. The instrumentation has already been purchased for this and RED Group will assist with installation and integration.

#### Services:

- Coordinate with other contactors
- Install Instrumentation
- Start-up & Commission new equipment
- Add new equipment to iFIX/Pi

#### Materials:

- Pressure Transmitters (by others)
- Wire, mounting hardware, & misc materials

Planned Personnel:

Helper, Tech, Eng II, Eng IV,

Estimated Cost:

\$15,540.00

#### 1.2 Flow Monitoring

There are existing Venturi flow meters that have not been operational for over 10 years. The existing wiring is old and can't be re-used.

#### Services:

- Inspect condition of tubing b/w the meters and the differential pressure cells
- Inspect condition of the flow meter instrumentation
- Determine power and communication options
- Provide detailed report stating the condition of each flow meter

#### Materials:

- Pressure Test Equipment
- Misc tubing materials/fittings

Planned Personnel:

Helper, Tech, Eng II, Eng III, Eng IV

**Estimated Cost:** 

\$54,000.00

#### 1.3 Platform Development 1A

RED Group is working with Veolia North America to give the SWBNO visibility of power conditions and pump status at each Drainage Pump Station. The meter I/O installation process is ongoing along with site acceptance testing and iFIX development.

#### Services:

- Perform termination of meter & feeder I/O in the field
- Wire & terminate additionally identified I/O in the field
- Perform Site acceptance Test for Veolia/SWBNO personnel



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**Project:** 

**S&WB Drainage Pump Station Improvements** 

Doc #: Date: VEO1705-SL001-006

05 APR 2018

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- · Build graphical representation for field equipment operational status
- Deploy screens
- Database Management
- System checkout

#### Materials:

- Field Wire & Misc Materials
- Meter I/O Module Brackets

#### Assumptions:

 During commissioning, a SWBNO representative will be present to witness the final calibration and operation of newly installed equipment

Planned Personnel:

Helper, Tech, Eng II, Eng III, Eng IV

**Estimated Cost:** 

\$300,000.00

# 1.4 Documentation and Integration for Plant Frequency Changer and the addition of 11 Drainage Pumps throughout Orleans Parish

SWBNO is requesting additional metering for the equipment associated with the plant frequency changer. They are also adding metering for 11 drainage pumps at various locations. RED Group will support, document, integrate, test, and install to achieve this.

#### Services:

- Coordinate with Veolia
- Specify Materials
- Provide Documentation and Drawings
- Installation
- Start-up & Commission new equipment
- Add new equipment to iFIX/Pi

#### Materials:

- Wire, mounting hardware, & misc materials
- RTU unit
- Wireless Modules

Planned Personnel:

Helper, Tech, Eng II, Eng III, Eng IV

Estimated Cost:

\$32,900.00

#### 1.5 Long Term Pi Support

#### Services:

- Coordinate with Veolia
- Specify Materials
- Provide Documentation and Drawings
- Installation, field work, troubleshooting, etc.
- Start-up & Commission new equipment



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Project:

**S&WB Drainage Pump Station Improvements** 

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SCADA System development, troubleshooting, additions, etc.

Planned Personnel:

Helper, Tech, Eng II, Eng III, Eng IV

Estimated Cost:

\$90,000.00

#### 2.0 RATES

Classification	ST Rate	OT Rate	Typical tasks (Including but are not limited to)
Helper	\$56.00	\$84.00	Field Work; Shop Work
Technician	\$90.00	\$135.00	Field Work Lead; Shop Work Lead
Designer	\$76.00	\$114.00	CAD Work
Engineer II	\$110.00	\$140.00	Engineering, Programming, & Project Coordination
Engineer III	\$120.00	\$150.00	Engineering, Programming, & Project Management
Engineer IV	\$130.00	\$160.00	Engineering and Project Management

#### 3.0 GENERAL ASSUMPTIONS

For the purpose of this proposal, the following items are assumed to be true. Any additional work resulting from these assumptions not being true would not be included in the price of this proposal and would result in additional cost.

Work proposed will be performed in 2018.

2. Published rates are subject to increases in 2019 and beyond.

3. Prices are estimates only. All services will be billed on a T&M basis based on actual time worked, travel time, and stand-by time.

4. Employee classification and planned personnel may change based on availability at the time of each order received.

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Remont Engineering & Design Group, LLC

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April 4, 2018

Bob Turner
Interim Team Coordinator
Sewerage & Water Board of New Orleans

Subject: QUOTATION FOR VISIBILITY PLATFORM DEVELOPMENT PHASE 1A

Dear Mr. Turner,

We are submitting this budgetary proposal to offer S&WB continued development of the Drainage System Visibility Platform. The first phase of development built from the following scope of work of Veolia's Condition Assessment contract:

#### TASK 6: System Visibility and Analytics

Review the existing Drainage Pump Station configuration to determine if the system can be modified to add instrumentation and communication devices to give better visibility to real time operational status. With an emphasis on short-term monitoring to address the emergency situation, as well as long-term consideration, recommendations will be made that will allow for the following:

- Installation of Instrumentation (temporary and permanent) that will provide
  operational status of equipment in the short-term to address the emergency
  situation and serve as the basis for the installation of a broader oversight program,
  such as Waternamics, in the event a long-term solution is eventually pursued.
  This work will provide some critical operating parameters to be displayed in a
  control room.
- 2 Develop a program for critical control data collection and aggregation.
- Evaluate key parameters that could be sent to a centralized SCADA system for central oversight of pump and pump station operational conditions.
- 4 Make capital investment recommendations related to implementing a centralized data system that can be used to manage operations and provide transparency to plant availability.

To structure the scope into an approach, Veolia broke down activities into 4 categories: (1) Hardware Installation (2) Software Development (3) Site Acceptance Testing and (4) Training & Knowledge transfer to S&WB. This involved a great deal of assessment work and coordination with S&WB IT to develop an appropriate system architecture from which to build a foundational Visibility Platform.

Indeed, the term extension requested on December 8th, due to remaining contract dollars was focused on the continued development of the Visibility Platform that was developed enough to be utilized for troubleshooting during the recent Emergency Freeze event.



In the table below, the column 'Phase 1' outlines all of the work that Veolia has completed to date (February 16, 2018) that meets the scope of work outlined above while column 'Phase 1A' outlines Veolia's proposed continuation of work.

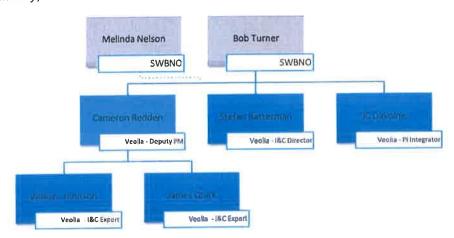
te m	Category	Phaen 1	Phase 1A	Amount
MI		Power Meters - 229 installed		
		Programmable Logic Controllers - 58 panels, communications and PLCs Installed, including extensive condult and integration		
		Personal Computers – 22 installed, extensive licensing, servers, network configuration, etc.		
		High Definition Large Screen Monitors – 9 Installed and functional, extensive conduit and integration	High Definition Large Screen Monitors – Conduit to complete 3 remaining units, plus training room screen DPS 17.	\$ 7,590
		Initial Piloting of Meter IO at DPS 01, DPS 02, DPS 06 and DPS 17 to provide full status information through to IFIx and Pi	Complete pilots at DPS 01, DPS 02, DPS 06 and DPS 17. Roll out Meter IO Modules at all stations to Monitor Status of Pumps, Bus Ties, Feeder Breakers and Motor Generators. Direct breaker feedback will be included where possible rather than indicator light status.	\$ 224,449
1.1	Hardware		Redesign Meter I/O Adapter Modules to protect from extreme DC system voltage spikes which damaged the original units	\$ 35,000
	114444		Mission Remote Terminal Unit to Connect Four Outstanding Stations (15, 18, Oleander, Elaine)	\$ 59,500
			Level Measurement reinstatement and Integration at DPS 16 + barscreen control functionality at DPS 14	\$ 11,500
			include complete visibility platform coverage of the Plant Frequency Changer system including power metering, iFix SCADA PC and PI display development.	\$ 50,000
			Provide full visibility for 11 drainage pumps in the drainage system which currently do not have existing power sensing instrumentation installed as is needed to provide full wisibility similar to other pumps	\$ 40,000
			WAN Communication and Wireless Communication to Meters at Non-Standard Stations (DPS 11, 13, 14, 16, Carrollton Frequency Changer)	\$ 32,000
1.2	Software	implement base if ix SCADA system and PI data historian to showcase relevant operational data per location / station. Includes extensive screen development and customization to S&WB's desires for layouts, functionality, etc.	77 Pi displays currently developed, many more remain to be developed and refinement of existing displays is included in this phase. Extensive Pi reporting functionality to be developed as well. IFIx development has been preliminarily completed for base station displays, but extensive refinement and testing required, as well as further display development.	\$ 246,391
		Install WIN-911 ready to be configured.	Configure WIN-911 software to provide full alarming functionality with S&WB input.	\$ 37,458
		Ensure that all inputs of installed equipment read correctly from the input module through to the iFix SCADA system and Pi data historian for all installed equipment and follows the sign-off process developed in collaboration with S&W8	Complete Site Accepance Testing for meter and PLC installations	\$ 16,830
1.3	Site Acceptance		Meter IO Site Acceptance Testing	\$ 136,859
	Testing	Preliminary development of all core documentation	Full completion of all core documentation, including additional drawings (plans, additional as-builts, etc.)	\$ 55,000
			Report of 'Recommended Troubleshooting Next Steps' (Initial use of Veolia Electrical Engineering Subject Matter Expert to review operating data and provide recommendations to remedy any identified issues)	\$ 11,000
1.4	Training & Knowledge Transfer to S&WB	Provided OT Job Description and commenced formal video training plan and user training plane with interim employees.	Expand video and documentation training plan and provide actual facilitated user training for software use as well as basic development.	\$ 35,000
1.5	Additional Interface Facilitation Scope	Met with Flood Authority, appears to be technically relatively simple to link systems - timing will be dependent on when Army Corps hands over PCCPs	Complete link to Flood Authority SCADA at PCCP stations	\$ 13,200
	Made by S&WB	Connection was established, ready to be developed and integrated	Complete GIS Integration	\$ 10,626

<u>Timeline:</u>
Term to extend 4 months following approval of the Proposal. Completion will be prior to the July 27th.



#### The Team:

Veolia will work under the oversight of the Sewerage & Water Board Interim Team Coordinator, Bob Turner and will liaise with the Sewerage & Water Board IT Department – specifically, Melinda Nelson.



The skill set of the team members highlighted in blue in the above organization chart is summarized below:

- Cameron Redden is a Project Manager with significant experience leading the implementation of complex instrumentation installation and integration efforts.
- Stefan Batterman is a Director of Automation and Integration for Veolia North America with significant experience developing software platforms for Drainage, Water, Wastewater and Power Systems.
- JC Davoine is a Senior Director of Operations Technology for Veolia North America and is the resident expert on the Pi Asset Framework.
- William Johnson is a Controls / Automation Engineer with Veolia North America and has assisted in numerous instrumentation installation and integration efforts at Veolia North America facilities.
- James Quirk is a Controls / Automation Engineer with Veolia North America and has assisted in numerous instrumentation installation and integration efforts at Veolia North America facilities.

#### Fees:

Compensation for the installation and integration of the instrumentation included within the scope of this proposal for the S&WB will be paid at the rates and in accordance with the Emergency Professional Services Agreement EPSA.

Veolia cost of services per individual is as follows:



Cameron Redden	\$ 175.38
Stefan Batterman	\$ 220.91
JC Davoine	\$ 269.31
William Johnson	\$ 96.74
James Quirk	\$ 96.60

External sub-contracts to Veolia and materials will be marked as per the agreed upon 10% rate within the EPSA for Facilities Condition Assessment.

		Ho	ours						
Organization	Person				Month 1	Month 2	Month 3		Month 4
/eolia	Stefan Batterman - I&C Director				112	112	112		112
/eolia	JC Davoine - Pi Integration				96	96	96		96
Veolia	William Johnson - I&C Expert				360	360	360		348
Veolia	James Quirk - I&C Expert				360	360	120		120
Veolia	Cameron Redden - Project Manager				100	100	100		100
		C	ost						
Organization	Person	Per Hour			Month 1	Month 2	Month 3		Month 4
Veolia	Stefan Batterman - I&C Director	\$220.91		\$	24,741.92	\$ 24,741.92	\$ 24,741.92	\$	24,741.92
Veolia	JC Davolne - Pi Integration	\$269.31		\$	25,853.76	\$ 25,853.76	\$ 25,853.76	\$	25,853.76
Veolia	William Johnson - I&C Expert	\$96.74		\$	34,826.40	\$ 34,826.40	\$ 34,826.40	\$	33,665.52
Veolia	James Quirk - I&C Expert	\$96.60		\$	34,776.00	\$ 34,776.00	\$ 11,592.00	\$	11,592.00
Veolia	Cameron Redden - Project Manager	\$175.38		\$	17,538.00	\$ 17.538.00	\$ 17,538.00	\$	17,538.00
		Sub-Cor	ntractors						
Electrical	Project estimates from RED Group integra	ator		\$	83,225.00	\$ 83,225.00	\$ 83,225.00	\$	83,225.00
	Included above in RED Group estimates			\$		\$ *	\$ - 8	\$	
Miscellaneous	Mission RTUs, SATEC Meter I/O + Hardwa	re for PFC & 11 D	PS Pumps	\$	86,660.00	\$ 15,883.60	\$ 	\$	- 1
		Mat	erials						
* No si	pecific allowance, S&WB may require (at a	dditional cost)		\$	2	\$ 	\$ 	\$	74
			ngency						
Continuency	for inclemental weather, coordination / a	ccess difficulties,	etc.	\$	10,000.00	\$ 10,000.00	\$ 10,000.00	\$	10,000.00
			- 11						
		Sub-Contract	tor Mark-Up	\$	16,988.50	\$ 9,910.86	\$ 8,322.50	5	8,322.50
		Materi	lals Mark-Up	\$		\$ -	\$ -	\$	*
		Total	Per Month	Ŝ	334,609.58	\$ 256,755.54	\$ 216,099.58	\$	214,938.70

Total Estimated Cost of Services: \$1,022,403.40

Sincerely,

Mia Javier Project Director Veolia

### SUBCONTRACT

Contract Number.	Contract	Number:	
------------------	----------	---------	--

### **PARTIES:**

Subcontractor: _SATEC INC	Company: Veolia Water North America – South, LLC					
Business form (Corporation, Limited Liability Company, etc.):Inc	Project Manager: _Mia Javier					
State of Formation / Incorporation:NJ	Phone:415-509-1013					
Address: 10 Milltown Court	Fax:					
Union, NJ 0527	E-mail:_mia.javier@veolia.com					
Represented by: _Juan Diaz	Jobsite Address:					
Title:Vice President	6501 Florida Ave., New Orleans, LA 70117					
Phone: _ Tel: 908-686-9510						
Fax:Fax: 908-686-9520	Client: Sewerage and Water Board of New Orleans					
E-mail: jdiaz@satecinc.com						
Orleans The Work is generally described as followsManufacturing of Meter I/O module and adapter protection un "Unit")	its (each module and protection unit, a					
Drawings, specification and other requirements may be for fully incorporated by reference into this Subcontract.						
Subcontractor shall start the Work promptly after the Effective later than	e Date stated below, and shall complete the Work not					
It is agreed that Subcontractor shall be compensated for c ("Subcontract Price"). Select one of the following:	completion of the Work on the basis set forth below					
Firm Lump Sum Price of \$						
Time and Material with a Not-to-Exceed Funding Amount of \$30,000 and other charges are attached hereto as Attachment	int of \$ Time and material rates					
Other:						
The Subcontract Price shall be paid on the basis set forth in Ge	eneral Condition 5, Charges and Payment Conditions.					

The Subcontract Price shall be paid on the basis set forth in General Condition 5, Charges and Payment Conditions. Other terms/attachments: \_Subcontractor guarantees that the Units will meet the performance criteria listed in Attachment D (the Performance Guarantee Criteria). If there is a performance criteria that is not met, Subcontractor will pay all costs associated with making the necessary corrections. Subcontractor shall use its discretion in determining the method (which shall be in accordance with industry standards) to remedy any performance related issues, provided such method shall be approved by Company. If Company does not approve of the corrective method, Subcontractor shall (i) refund to Company, within ten (10) days, the full cost of the Unit(s) plus all other material parts and labor incurred or to be incurred to remove the Unit(s), and (ii) provide to Company all design specifications to enable the Client to create units to replace the Units that did not meet the Performance Guarantee Criteria.



April 4, 2018

Mr. Cameron Redden VEOLIA North American

Reference: Platform Development 1A

Dear Cameron,

PM130EH

12DIOR-ETH

Module w/SGE







The below prices and configuration are the exact discounted prices I have previously provided for a quantity of 100 units. I am extending the same individual cost to you for the amount of meters you need. The only add on is the "SGE-Kit" that are the three connectors needed for each add on module.

The following is provided as per your request:

### Energy meter Series PM130EH Plus

	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		WT 44 db
QTY	<u>P/N</u>	<u>Description</u>	Unit \$
	PM130EH-plus-25Hz-5-ACDC	Energy Meter	\$ 540.00 each
1	12DIOR-125v-ETH (includes module)	12 Wetted Inputs, Isolators & Ethernet	\$ 300.00 each
î	SGE-Kit (3 SGE connectors)	Phoenix Surge Adapters	\$ 150.00 each
•	502 2111 (5 002 001111111)	Total for one assembly above \$ 990.	00 each

Terms: Net 30 Days FOB: Union, NJ

Delivery: Stock to 3 Weeks ARO Quote remains valid for 30 days

I have the meters in stock for immediate delivery. It may take 12 days to get the rest of the items but I will expedite. If partial order is accepted at least I can deliver the meters so you can at least get those installed. Please note I have already shipped QTY 200 of the modules. Some are still on hold at The Reynolds Company. We just have to supply the isolators or SGE kit required.

Please feel free to call me direct if you have any questions.

Sincerely,

Vice President

10 Milltown Court, Union, NJ 07083 908-686-9510 Office 908-686-9520 Fax

P. O. BOX 145 Chalmette, LA 70044

PHONE: 888-655-7867 / 251-621-1491 FAX: 251-621-8111 **QUOTATION #** 

GC0218-04

**DATE: 2/1/2018** 



PREPARED BY
Glenn B. Cooper

TO:	Stefan Batterman	PROJECT:	Mission My	Dro Unit
COMPANY:	Veolia North America		Oleander Drainag	e Pump Station
0=	2600 Christian Street	LOCATION:	New Orleans	, Louisiana
	Philadelphia, PA19146			
PHONE:	(215) 888-8964	ENGINEER:	Unkno	own
EMAIL:	stefan.batterman@veolia.com	CONTACT:		
CREDIT	TERMS: 30 Days SPECS	PROVIDED VIA:		
DEL	IVERY*: 2-3 Days	FREIGHT:	Delive	ered
QUANTITY	DI	ESCRIPTION		PRICE
	MISSION COMM	UNICATIONS MYDRO	UNIT	\$ 9,038.40
1	RTU HAS 8 DIGITAL, 2 ANA 1 KEY READER, 3 REMO INCLUDES A RADIO, ANTENNA, ANTENNA CABLE	OTELY CONTROLLABI NEMA 1 FLATPAK EN F, POWER SUPPLY, B	TER (OPTIONAL), LE OUTPUTS. ICLOSURE, ACK UP BATTERY,	<b>Φ</b> 2 245 00 ΓΛΟΨ
1	M853 FLAT	PAK REAL TIME UNIT	Enclosed the HELLER PROPERTY OF A MADE OF THE SECOND	\$2,245.00 EACH \$563.40 EACH
1	PART # SP800-12 YEARLY MO PART # OP465 ADAM MODULE	NITURING FEE		\$495.00 EACH
1	PART # OP465 ADAM MODULE PART # OP653 ADAM MODULE	E - ANALOG INPUT	>	\$495.00 EACH
1	PART # SPOP-12 YEARLY MO	NITORING FEE	>	\$75.00 EACH
2 2	DAYS INSTALLATION, START	UP & MISC MATERIA	ALS>	\$2,200.00 EACH
	VACT500-42L VOLTAGE TRAN			\$205.00 EACH
3 1		>	31 40110 ( 3311 31	\$ 75.00
	TOTALTURNKEY PRICE FOR	OLEANDER STATION	N>	\$ 9,038.40

\*DELIVERY IS AN APPROXIMATE TIME PERIOD AFTER CUSTOMER ACCOUNT HAS BEEN SET UP, OR PAYMENT METHOD HAS BEEN APPROVED.

Due to the rising costs of raw materials, All quotations are good for 30 days. All material is subject to Engineer's final approval of submittals. JHW takes no responsibility

Due to the rising costs of raw materials, All quotations are good for 30 days. All material is subject to Engineer's final approval of submittals. The takes no responsibility for electrical wiring, components or terminations made by others or subsequent damages of our equipment due to faulty design and/or installation; including drives, or other devices not furnished and installed by JHW. J H Wright will not be responsible for system conditions, present or future, which may vary from original design. This includes but is not limited to hydraulic and electrical conditions

Progress payments may be required on some orders dependant on Customer Credit/Payment history or the Equipment Manufacturers' requirements

Under no circumstances are "retainage fees" allowed. Our prices do not include any Federal, State or Local sales taxes. All quotations are for material only and do not include any labor or installation unless otherwise noted. Manufacturer's warranty applies to all products. JHW standard terms and conditions apply. Should services of a collection agency, attorney, or other legal service become necessary for collection, purchaser shall assume all responsibility for all expenses accrued in the collection process. ANY REMAINING EQUIPMENT HELD AT JHW'S WAREHOUSE WILL BE INVOICED BASED ON CUSTOMER'S ORIGINAL REQUIRED DATE, WITH PAYMENT DUE WITHIN 30 DAYS OF INVOICE DATE.

The undersigned agrees to and has the authority	to bind purchaser to the terms and condi-	nons and equipment above.	
SIGNATURE:	DATE:	PO#:	
SIGNATURE:			

P. O. BOX 145 Chalmette, LA 70044

PHONE: 888-655-7867 / 251-621-1491 FAX: 251-621-8111 **QUOTATION#** 

GC0218-01

DATE: 2/1/2018



PREPARED BY

Glenn B. Cooper

TO:	Stefan Batterman	PROJECT:	Mission My	/Dro Unit		
COMPANY:	Veolia North America		Drainage Pump	inage Pump Station # 15		
	2600 Christian Street	LOCATION:	New Orleans	, Louisiana		
	Philadelphia, PA19146	_				
PHONE:	(215) 888-8964	ENGINEER:	Unkno	own		
EMAIL:	stefan.batterman@veolia.com	CONTACT:				
		ROVIDED VIA:				
	LIVERY*: 2-3 Days	FREIGHT:	Delive	ered		
QUANTITY	DE	SCRIPTION		PRICE		
	MISSION COMMU	NICATIONS MYDRO	UNIT	\$ 18,698.40		
1	RTU HAS 8 DIGITAL, 2 ANALO 1 KEY READER, 3 REMOTINCLUDES A RADIO, N ANTENNA, ANTENNA CABLE,  M853 FLATE	FELY CONTROLLABI IEMA 1 FLATPAK EN POWER SUPPLY, BA PAK REAL TIME UNIT	TER (OPTIONAL), LE OUTPUTS. ICLOSURE, ACK UP BATTERY.	\$2,245.00 EACH \$563.40 EACH		
1	PART # SP800-12 YEARLY MON	IN ORING FEE		\$495.00 EACH		
1	PART # OP465 ADAM MODULE PART # OP653 ADAM MODULE	- ANALUG INPUT		\$495.00 EACH		
1	PART # OP653 ADAM MODULE PART # SPOP-12 YEARLY MON	TODING FEE		\$75.00 EACH		
2	1" ALUMINUM PIPE, FITTINGS, (	R HURS	>	\$2,700.00 TOTAL		
200'	DAYS INSTALLATION, STARTU	D & MICC MATERIA	NI S	\$2,200.00 EACH		
5	VACT500-42L VOLTAGE TRANS	EDUCEDS 0-500V INI	PLIT-40mA OLITPLIT	\$205.00 EACH		
3	PART # IT477S 0-15PSI PRESSU	IRE TRANSDUCER.	>	\$285.00 EACH		
1	PART # IT4773 0-13F3F RESSE	ISOI ATOR	>	\$75.00 EACH		
4	FREIGHT		>			
,	TOTALTURNKEY PRICE F			\$ 18,698.40		

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Under no circumstances are "retainage fees" allowed. Our prices do not include any Federal, State of Local sales laxes. All quotations are for fraterial only and do not include any factor of control of the include any factor of the local sales laxes. All quotations are for fraterial only and do not include any factor or control or control of the local sales laxes. All quotations are for fraterial only and do not include any factor or control or control of the control

The undersigned agrees to and has the authority to bind purch	naser to the terms a	nd conditions and equipment above:	
SIGNATURE:	DATE:	PO#:	
0,0,0,1,0,12,	_		_

P. O. BOX 145 Chalmette, LA 70044

PHONE: 888-655-7867 / 251-621-1491 FAX: 251-621-8111 **QUOTATION #** 

GC0218-03

DATE: 2/1/2018



PREPARED BY
Glenn B. Cooper

TO:	Stefan Batterman	PROJECT:	Mission M	yDro Unit
COMPANY:	Veolia North America		Elaine Drainage	Pump Station
-	2600 Christian Street	LOCATION:	New Orleans	s, Louisiana
-	Philadelphia, PA19146		*	
PHONE:	(215) 888-8964	ENGINEER:	Unkn	own
EMAIL:	stefan.batterman@veolia.c			
CREDIT		SPECS PROVIDED VIA:		
DEL	IVERY*: 2-3 Days	FREIGHT:	Delive	ered
QUANTITY		DESCRIPTION		PRICE
	MISSION	COMMUNICATIONS MYD	RO UNIT	\$ 9,038.40
1	RTU HAS 8 DIGITAL, 1 KEY READER, 3 INCLUDES A F	M853 REMOTE MONITOR 2 ANALOG, 2 PULSE COU 3 REMOTELY CONTROLL/ RADIO, NEMA 1 FLATPAK CABLE, POWER SUPPLY	JNTER (OPTIONAL), ABLE OUTPUTS. ENCLOSURE,	
1		3 FLATPAK REAL TIME U		\$2,245.00 EACH
1	PART # SP800-12 YEAR	LY MONITORING FEE	>	\$563.40 EACH
1	PART # OP465 ADAM M	ODULE - ANALOG INPUT	>	\$495.00 EACH
1	PART # OP653 ADAM M	ODULE - DIGITAL INPUT	>	\$495.00 EACH
2	PART # SPOP-12 YEAR	LY MONITORING FEE	>	\$75.00 EACH
2		STARTUP, & MISC. MATE		\$2,200.00 EACH
3 1		E TRANSDUCERS 0-500V reight		\$205.00 EACH \$ 75.00
	TOTALTURNKEY PR	RICE FOR ELAINE STATIO	N>	\$ 9,038.40

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The undersigned agrees to and has the authority to bind pure	haser to the terms and com	amons and equipment above.	
SIGNATURE:	DATE:	PO#:	

P. O. BOX 145 Chalmette, LA 70044

PHONE: 888-655-7867 / 251-621-1491 FAX: 251-621-8111 **QUOTATION #** 

GC0218-02

**DATE: 2/1/2018** 



PREPARED BY

Glenn B. Cooper

TO:	Stefan Batterma	n	PROJECT:	Mission	MyDro U	'nit
COMPANY:	Veolia North Amer	rica	-	Drainage Pu	mp Static	on # 18
	2600 Christian Street		LOCATION:	New Orlea	ıns, Louis	iana
-	Philadelphia, PA19		-			
PHONE:	(215) 888-8964		ENGINEER:	Un	known	
EMAIL:	stefan.batterman@vec		CONTACT:			
CREDIT TERMS:	30 Days	SPECS PR	OVIDED VIA:			
DELIVERY*:	2-3 Days		FREIGHT:	De	livered	
QUANTITY		DESC	CRIPTION			PRICE
	MISS	ION COMMUN	ICATIONS MYDI	RO UNIT	\$	9,038.40
					,	
1	RTU HAS 8 DIGI 1 KEY READI INCLUDES	TAL, 2 ANALOC ER, 3 REMOTE S A RADIO, NE	LY CONTROLLA MA 1 F <mark>L</mark> ATPAK I	NTER (OPTIONAL), BLE OUTPUTS.		
1			K REAL TIME UN		. ,	245.00 EACH
1	PART # SP800-12 Y	EARLY MONIT	ORING FEE		> \$5	63.40 EACH
1	PART # OP465 ADA	M MODULE - A	NALOG INPUT		> \$49	95.00 EACH
1 "						95.00 EACH
2						75.00 EACH
2				RIALS>		200.00 EACH
3	VACT500-42L VOLT			INPUT-40mA OUTPU		05.00 EACH
1		Freight	·>		\$	75.00
	TOTALTURNK	EY PRICE FOR	R STATION # 18	>	\$	9,038.40

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The undersigned agrees to and has the authority to bind pur	rchaser to the terms and condi	dons and equipment above:	
SIGNATURE:	DATE:	PO#:	
0,0,0,0			



February 15, 2018

Bob Turner
Interim Team Coordinator
Sewerage & Water Board of New Orleans

Subject: QUOTATION TO PROVIDE LONG-TERM TECHNICAL SUPPORT RELATING TO THE VISIBILITY PLATFORM FOR THE SEWERAGE AND WATER BOARD (S&WB)

Dear Mr. Turner,

We are submitting this budgetary proposal to offer S&WB (1) long-term technical support and (2) continued development services for the recently implemented Visibility Platform.

As discussed, the current, core users of the Visibility Platform remain to be interim employees and therefore, S&WB could benefit from continued technical support and development of the platform until such time that these actions can be transition to and owned directly by S&WB.

These support services include the following:

- Further development and implementation of software / screens to cater to various S&WB (and other) stakeholders
- 2. Support with troubleshooting, associated with the system, where Veolia experts provide in-the-field mentoring support to designated S&WB staff
- 3. Continued development of video training as requested
- 4. Exact support items to be chosen by S&WB as needs arise.

This proposal allows for a continual Veolia presence to support S&WB. Key Veolia experts involved in the Visibility Platform implementation have been selected to fulfill this support in a rotating basis. Both remote and emergency support will also be provided as needed. The intent is that Veolia experts will coordinate support with S&WB and develop weekly schedules to structure various support themes / focuses as needs arise.

The work proposed herein would be additional scope under the Task 6 Visibility & Analytics Platform Development that was part of the Emergency Professional Services Agreement (the "EPSA") entered into as of August 25, 2017 between the Sewage and Water Board of New Orleans ("S&WB") and Veolia Water North America-South, LLC.

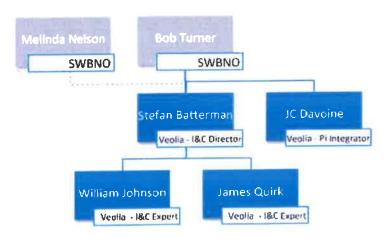


### Timeline:

Initial term to extend 6 months following approval of the Proposal.

### The Team:

Veolia will work under the oversight of the Sewerage & Water Board Interim Team Coordinator, Bob Turner and will liaise with the Sewerage & Water Board IT Department – specifically, Melinda Nelson.



The skill set of the team members highlighted in blue in the above organization chart is summarized below:

- Stefan Batterman is a Director of Automation and Integration for Veolia North America and routinely leads instrumentation installation and integration efforts.
- JC Davoine is a Senior Director of Operations Technology for Veolia North America and routinely leads instrumentation installation and integration efforts.
   JC will have limited involvement in the project as the Pi data historian integration lead.
- William Johnson is a Controls / Automation Engineer with Veolia North America and has assisted in numerous instrumentation installation and integration efforts at Veolia North America facilities.
- James Quirk is a Controls / Automation Engineer with Veolia North America and has assisted in numerous instrumentation installation and integration efforts at Veolia North America facilities.



### Fees:

Compensation for the installation and integration of the instrumentation included within the scope of this proposal for the S&WB will be paid at the rates and in accordance with the Emergency Professional Services Agreement EPSA.

Veolia cost of services per individual is as follows:

Person	Unburdened * 3.38
Stefan Batterman	\$ 220.91
JC Davoine	\$ 269.31
William Johnson	\$ 96.74
James Quirk	\$ 96.60

External sub-contracts to Veolia and materials will be marked as per the agreed upon 10% rate within the EPSA for Facilities Condition Assessment. Note that only minimal subcontractor allowances have been specifically included in this proposal to account for field work, troubleshooting, etc. Additionally, no materials allowances have been included. Any needs further than the allowances provided for will be assessed as they may arise and presented to S&WB for consideration and treated as a change order if approved by S&WB and carried out by Veolia.

Total Cost	Days	Task — Task
-00	***	<ol> <li>Further development and implementation of software / screens to cater to various S&amp;WB (and other)</li> </ol>
581,442	l)	stakeholders
		2. Support with troubleshooting, associated with the system, where Veolia experts provide in-the-field
5134,801	48	mentoring support to designated S&WB staff
\$28,083		3. Continued development of video training as requested
528,083	10	4. Exact support items to be chosen by S&WB as needs arise.



		Hours						www.wore	+
Organization	Person		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	4
Veo a	Stefan Batterman - &C Director		6C	6C	60	6C	60	60	1
Veo a	JC Davo ne - P Integration		78	<b>÷</b> 8	48	48	48	78	4
Veo a	W am Johnson - &C Expert		6C	6C	6C	60	6C	6C	
Veo a	James Quirk - &C Expert		6C	6C	6C	60	60	60	
		Cost							
Organization	Person	Per Hour	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	
tr .	Stefan Batterman - &C Director	5221	513,255	\$13,255	\$13,255	\$13,255	\$13,255	\$13,255	
Veo a	IC Davo ne - P integration	\$269	\$12,927	\$12,927	512,927	\$12,927	\$12,927	S12,927	
Veo a	William Johnson - &C Expert	997	55, 804	S5 804	\$5,804	55, 804	55,804	55, 804	
Veo a	James Quirk - I&C Expert	\$97	\$5,796	55,796	55,796	\$5,796	55,796	S5, 79 <del>6</del>	
		Sub-Contro	ctors						
E ectr ca	Nominal at owarcefor field work trou	o exhapting etc	510,000	\$10,000	S10,000	\$10,000	S10,000	510,00C	
nstrumentat on	* No specific allowance SSWB may re	recetadd tiona cost	SC	50	\$0	SC	SC	50	
SCADA / Historian	Norminas a rowance for skill screen dev	sprient troupleshooting etc	\$5,000	55,000	55,000	\$5,000	\$5,000	55,000	
		Meterk							4
, 1,221	sesific allowance S&W 2 may require to	t add tional sosti	50	50	SO	50	50	SC	
		Continge	ncy						
Contineents	for inclemental weather coordination.	access difficulties etc	S2,500	52,500	52,500	\$2,500	\$2,500	52,500	
CO-Mingle Co									
		Sub-Contractor Mark-L	\$1,500	\$1,500	\$1,500	\$1,500	51,500	\$1,500	
		Materials Mark-L		50	50	50	50	50	1
		Total Per Mon	S56,782	\$56.782	\$56,782	S56,782	S56, 782	\$56,782	Ī

Total Estimated Cost of Services: \$340,691

Sincerely,

Mia Javier Project Director Veolia

Mya Daw

	E DESIDES	OF KEY PERSONNE	I DECIN	YSED EAD	THE COST	DACT
		(Complete one Section				CMOSE T
10		13. ROLE IN THIS CO				YEARS EXPERIENCE
12.	NAME	l * ·		'		
Cha	ad Harper Cutrer	PLS, Party Chief & Survey/Eng/Scanning Technician			a. TOTAL	b. CURRENT FIRM
			ning recr	nician	12 Years	7 Years
15.	FIRM NAME AND LOCATION					
	_	ale Stockstill & Asso				
16.	EDUCATION (DEGREE & SPE	ECIALIZATION)	17. CUR			REGISTRATION
ľ	B.S., Agricultural Engineering			MS	S PLS -25125	1
	ConcLand Surveying, MS	State University				
18.	OTHER PROFESSIONAL QUA	ALIFICATIONS: GIS C	College Co	ourses, NS	PS Member, I	MAPS Member,
TW	IC, Association of Reciprocal S				Safety Training	ig, CPR
		19. RELEVA	NT PRO	IECTS		
	1. TITLE AND LOCATION (Cit					COMPLETED
	Army COE, New Orleans Distri			451124124541 916	SSIONAL	CONSTRUCTION
	Contract W912P8-07-D-0028,				RVICES	(if applicable)
	Phase IV Florida Ave. Project			2	2012	NA
	3. BRIEF DESCRIPTION (Sco)	pe, etc.) & SPECIFIC	ROLE	x		ect performed with current firm
a.	DS&A completed a detailed To	po & Utility Survey for	major roa	ad, drainag	je, and canal v	work in the 9th Ward
a.	of NOLA. The 123 acre site co	ntained major drainag	je canals,	railroads,	overpasses, a	and over 4 miles of
	urban city streets. DS&A work	ed with Survey Solutio	ns, Inc. w	ho provide	ed Mobile Map	pping services. Mr.
	Cutrer was involved in the colle	ecting field data on und	derground	l utilities, tr	acing gas pip	elines & water lines,
	etc. Collecting additional topo	shots for the DTM, mi	ning Unde	erground U	tility informati	on from Sewage &
	Water Board record drawings 8	& verifying the data. D	rafting on	the Under	rground Utility	portion of the CAD
	Deliverable drawing the utilities		ers in 3D	for inclusio	n on the final	CAD drawing.
	1. TITLE AND LOCATION (Cit					COMPLETED
	Army COE, New Orleans Distri				SSIONAL	CONSTRUCTION
	Contract W912P8-07-D-0028,				RVICES	(if applicable)
b.	Westbank & Vicinity, MS River	& Tributaries			2011	NA NA
٥,	3. BRIEF DESCRIPTION (Sco	pe, etc.) & SPECIFIC	ROLE	х		pject performed with current firm
	DS&A was tasked to furnish ov	erbank and hydrograp	phic cross	sections o	n a stretch of	levee and adjacent
	borrow pit. Mr. Cutrer was a m		rew and v	vas involve	ed in processi	ng the data files
$\vdash$	and checking the final cross se				(0) VEAD (	SOMEL ETED
	1. TITLE AND LOCATION (Cit			DDOCC	SSIONAL	COMPLETED CONSTRUCTION
	Topographic Survey for Univer	sai Oriango				
	Orlando, Florida	407			RVICES	(if applicable)
	Design Support for UO Project		DOLE		2016	2018
C.	3. BRIEF DESCRIPTION (Sco	pe, etc.) & SPECIFIC	ROLE	<u>x</u>		pject performed with current firm
	DS&A was tasked with providir	ng a Topographic Surv	ey on Uni	versai prop	perty which he	onis on 1-4,
	Kirkman Road and Adventure	way to be used in the	aesign of	a new trar	n road and tu	nnel to connect
	parking with the new Volcano B	Bay waterpark. The sc	ope includ	ied all exis	ting undergro	und tunites, roads,
	landscape areas to include all		Mr. Cutre	was a par	12) VEAD (	COMPLETED
	1. TITLE AND LOCATION (Cit			DDOE 9	SERVICES	CONSTRUCTION
ı	Boardwalk Pipeline Index301-F	10ject 4025			2014_	2016
l	Smith County, MS	no ata \ 0 SDECIEIC	POLE	x		pject performed with current firm
L	3. BRIEF DESCRIPTION (Sco	pe, etc.) a specific i				
a.	Dale Stockstill & Associates wa 20+ mile stretch of pipeline. M	s caskeu with providin	ig all burv	ese of the	uraphing servi	Chief on the crew
	doing the surveying, processing	a the CDS and conver	ni ali pila Istional dat		chacks on dat	ta drafting on the
	plans, creating profiles and pla	y we Growings with	mbodd	a, www.	hotography n	latting & describing
	plans, creating profiles and pla					

E. RESUMES OF KEY I		SED FOR THE	CONTRA	ST
(Complete	one Section E for eac			
12. NAME	13. ROLE IN THIS C	ONTRACT	14. YE	ARS EXPERIENCE
David Kennedy	Party Ch	ief	a. TOTAL	
·			17	13
15. FIRM NAME AND LOCATION (City and		20 802:		
	ckstill & Associates, I			DE 01070 171011
16. EDUCATION (DEGREE AND SPECIALI	ZATION) 17. CUF			REGISTRATION
High School	IONO (Dublications O	,	and Discip	*
18. OTHER PROFESSIONAL QUALIFICATI				
Red Cross CPR, TDS Survey Pro Training, Basic Plus & Plant Specific Training, Trans				ety Councils
	9. RELEVANT PROJE		iliais	
1. TITLE AND LOCATION (City and Sta			YEAR CO	MPLETED
Phase IV Florida Avenue Project, New O	rleans I A	PROFESSI		CONSTRUCTION
New Orleans District Corps of Engineers	nouno, E t	SERVIC		
Contract W912P8-07-D-0028 Job No. 12	2-124C	2012		
a. 3. BRIEF DESCRIPTION (Scope, etc.) &				performed with current firm
DS&A completed a detailed Topo & Utility				
of New Orleans. See Block F- Project XX				
Pipelines, water lines, communication line	es, etc. His crew also r	napped the sew	er lines op	ening and
collecting inverts. Provided conventional	ocations of planimetric			
<ol> <li>TITLE AND LOCATION (City and Sta</li> </ol>				MPLETED
Cypress Gardens to Caernavron Levee E	inlargement	PROFESSI		CONSTRUCTION
New Orleans District Corps of Engineers		SERVIC		
b. Contract W912P8-07-D-0028 Job No. 09		2009		
3. BRIEF DESCRIPTION (Scope, etc.) &	SPECIFIC ROLE			performed with current firm
DS&A was tasked to furnigh a Topograph	nic Survey over 5.4 mil	es of MS River	Levee. Mr.	. Kennedy was
the Instrumentman on the project.	(-)	(2)	VEAR COL	MPLETED
TITLE AND LOCATION (City and Statement Property of Statement		PROFESSI		CONSTRUCTION
New Orleans District Corps of Engineers	.cne	SERVIC		CONSTRUCTION
Contract W912P8-07-D-0028 Job No. 07	-103C	2007		
3. BRIEF DESCRIPTION (Scope, etc.) &				performed with current firm
c. RTK & Hydrographic Survey in the marsh				
for the project was established by two 4 h				
normal to the centerline of 5 channels. Pr				
extended into Lake Cataouatche and wer	e collected by RTK an	d DGPS Hydro.	Mr.Kenne	dy was the
Instrumentman on the project.				
1. TITLE AND LOCATION (City and State	te)		YEAR CO	
Atchafalaya Basin Gage Inspection		PROFESSI		CONSTRUCTION
New Orleans District Corps of Engineers		SERVIC		
Contract W912P8-07-D-0028, Job No. 08		2008		
d. 3. BRIEF DESCRIPTION (Scope, etc.) &				performed with current firm
DS&A was tasked with recovering & mark				
included recovery, rehabilitation, monume				
to the current epoch of NAVD88 by Statio				
lines and instructions for GPS collection a	mu post processing. M	ii. Chaveis was	a party CM	er on the project.

### AMENDMENT No. 1 EMERGENCY PROFESSIONAL SERVICES AGREEMENT FOR FACILITIES CONDITION ASSESSMENT VEOLIA WATER NORTH AMERICA-SOUTH, LLC

### ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

AES#	CN Detailed Description	CN	Fec	Funding Source
ì	This second Amendment will focus on two categories of scope: (1) Condition Assessment Diagnostic Testing Gapnost completed during the period between August 25, 2017 and December 8, 2017 and (2) Continued Development of S& WB's Visibility Platform, which is the operations data backbone of the entire Sewerage & Water Board organization).  The specific scope line items are detailed in the table below and include a provision to provide as-needed addition engineering services, root cause analysis reports and potential staff augmentation during 2018 Hurricane season should funding allow. Each task of the scope of work allows for a 15% contingency to decrease the chance of requiring a change order and the contract is structured as a do-not-exceed, Time & Materials.  La - Vibration  1b - Pump Capacity Testing 1c - Motor Circuit Analysis 1d - Vacuum Pump / System Assessment 10 - Structural Assessment 2 - Additional Potable Water Distribution, Level, Flow and Pressure Monitoring 3 - Visibility Platform Development Phase I A 4 - Long Term Support of Pi 5 - Program Management 6 - As-Needed Resource / Services		\$ 2,884,478.00	System Funds Walcr - \$944,013.00 Wastewater - \$397,016; Drainage - \$1,343,448.6

CONTRACT D	BE %
Contract DBE%	10%
Current DEE%	6%
Prejected DBE%	11%

TOTAL	S	2,884,478.00
CONTRACT AMOUNT		
Original Contract Amoun	1 5	3,000,000.00
Amount of Previous Amendmen	8 \$	2,766,971.00
Amount of this Amendmen	1 5	2,884,478.00
Amendments to dat	e s	5,651,449.00

REVISED CONTRACT AMOUNT \$ 8,651,449.00

It is mutually agreed to perform and accept the above	revisions in accordance with	the currently ammended contract and the applicable specifi	ications for the above price.
Proposed By:		Recommended By:	
Mya Javier Veolia Water North America-South, LLC	Date	M. Ron Spooner, P.E. Chief of Engineering	Date

1 of 1

4/6/18 @ 6:43 AM

### AMENDMENT No. I EMERGENCY PROFESSIONAL SERVICES AGREEMENT FOR FACILITIES CONDITION ASSESSMENT VEOLIA WATER NORTH AMERICA-SOUTH, LLC

### ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

AES #	CN	Detailed Description	Fec	Funding Source
1		This second Amendment will focus on two categories of scope: (1) Condition Assessment Diagnostic Testing Gaps not completed during the period between August 25, 2017 and December 8, 2017 and (2) Continued Development of S&WB's Visibility Platform, which is the operations data backbone of the entire Sewerage & Water Board organization).  The specific scope line items are detailed in the table below and include a provision to provide as-needed additional engineering services, root cause analysis reports and potential staff augmentation during 2018 Hurricane season should funding allow. Each task of the scope of work allows for a 15% contingency to decrease the chance of requiring a change order and the contract is structured as a do-not-exceed, Time & Materials.    a - Vibration   b - Pump Capacity Testing     b - Woter Circuit Analysis     d - Vacuum Pump / System Assessment     e - Structural Assessment     e - Additional Potable Water Distribution, Level, Flow and Pressure Monitoring     3 - Visibility Platform Development Phase 1A     4 - Long Term Support of Pi     5 - Program Management     6 - As-Needed Resource / Services	\$ 2,984,478.00	System Funds Water - 5944,013,00 Wastewater - 5597,016,28 Drainage - \$1,343,448.89

CONTRACT D	BE %
Contract DBE%	10%
Current DBE%	6%
Projected DBE%	11%

TOTAL	\$	2,884,478.00
CONTRACT AMOUNT		
Original Contract Amount	5	3,000,000.00
Amount of Previous Amendments	S	2,766,971.00
Amount of this Amendment	S	2,884,478.00
Amendments to date	S	5,651,449.00

REVISED CONTRACT AMOUNT \$ 8,651,449.00

It is mutually agreed to perform and accept the above revisions in accordance with the currently ammended contract and the applicable specifications for the above price.

Proposed By:		Recommended By:	
Min Javier Veolfa Water North America-South, LLC	Date	M. Ron Spooner, P.E. Chief of Engineering	Date

### RATIFICATION OF CHANGE ORDER NO. 3 FOR CONTRACT 1395- WATER HAMMER HAZARD MITIGATION- ELVATED STORAGE TANKS

WHEREAS, the Sewerage and Water Board entered into Contract 1395 with B&K Construction Co. for the FEMA funded construction of Water Hammer Hazard Mitigation Elevated Storage Tanks in the bid amount of \$33,570,152.00, and

WHEREAS, this change order consists of changes to the contract due to needing to install a temporary backwash system at the backwash gallery until the new system is constructed and operational. This is a precautionary measure that is being taken by the Sewerage & Water Board until the new system is commissioned sometime in late 2018 or early 2019, in the event the existing system that was constructed in the 1930's experiences failure. This work is being performed by B & K under a time and material basis (T & M) or Cost Plus approach. It was decided to conduct this work under a cost plus approach in order to expedite the installation process since the existing pump/system did experience issues that are likely due to the age of the system.

WHEREAS, the contractor was required to do additional work due to unforeseen conditions and feeder outages; and

WHEREAS, this Change Order, in the amount of \$1,715,227.26 is 5.1% of the original Contract value, and

**NOW THEREFORE BE IT RESOLVED,** that approval of Change Order No. 3 for Contract 1395 is ratified by the Sewerage and Water Board of New Orleans.

I, Bruce Adams, Interim General Superintendent,
Sewerage and Water Board of New Orleans, do hereby
certify that the above and foregoing is a true
and correct copy of a Resolution adopted at the Regular
Monthly Meeting of said Board, duly called and held,
according to law, on April 18, 2018.

Bruce Adams, P.E. Interim General Superintendent SEWERAGE AND WATER BOARD OF NEW ORLEANS



### Sewerage & Water Board

Al adams 12018

### Inter-Office Memorandum

Date: April 5, 2018

From: Bruce Adams, P.E.

Interim General Superintendent

To: M

Marcie Edwards

Interim Executive Director

Re: Contract Number 1395 - Water Hammer Elevated Storage Tanks

Enclosed please find a recommendation from the Chief of Engineering for approval of Change Order No. 3 for the above contract. The original contract amount was \$33,570,152.00 and work began on November 7, 2016 with a contract duration of 730 days. The Contract Review Committee approved Contract 1395 with a DBE Goal of 5%.

Change Order No. 1 was ratified by the Board of Directors on May 17, 2017 in the amount of \$2,873,564.38, 8.6% of the original contract amount and added 185 days to the contract duration. It largely comprised of a scope of work that had been removed from a future Water Hammer Hazard Mitigation Construction Project, Contract 1376. This work, additional piping, valves, a new valve vault, and associated electrical work, allowed for the Panola Water Tower to stay in operation during the construction of Contract 1376.

Change Order No. 2 was ratified by the Board of Directors on October 18, 2017 in the amount of \$1,151,980.76, 3.4% of the original contract amount and added 82 days to the contract duration. This additional work included contract changes due to unforeseen underground conditions, some minor design changes, and modifications to feeders requested by Engineering.

This Change Order consists of changes to the contract due to needing to install a temporary backwash system at the backwash gallery until the new system is constructed and operational. This is a precautionary measure that is being taken by the Sewerage & Water Board until the new system is commissioned sometime in late 2018 or early 2019, in the event the existing system that was constructed in the 1930's experiences failure. This work is being performed by B & K under a time and material basis (T & M) or Cost Plus approach. It was decided to conduct this work under a cost plus approach in order to expedite the installation process since the existing pump/system did experience issues that are likely due to the age of the system. This following modifications includes the installation of additional; (5) each - 12" diesel driven pumps, +- 300 linier feet of 24" influent & effluent piping system, (5) each 12" & (1) each 24" gate valve, (2) each 24" tapping valves, (1) each 24" hot tap, (1) each 24" hot tap plug removal, (5) each 12" valve actuators, (1) each 24" tapping valves & one 12" gate valve, associated electrical power supply,

control wiring for valve control functioning, (1) each 1,000 gallon diesel fuel tank for refueling needs and construction of a concrete slabs for pump(s) and fuel tank placement.

Enclosed please find a recommendation from the Chief of Engineering for approval of Change Order No. 3 for the above contract

This Change Order is in the amount of \$1,715,227.26 which represents 5.1% of the original bid amount and will extend the length of the Contract by 96 days. With the ratification of this Change Order, the cumulative total of changes will amount to \$5,740,772.40 with a revised contract amount of \$39,310,924.40.

I would appreciate you forwarding this to the attention of the appropriate committees of the Board for consideration and approval.

cc: Bruce Adams, Deputy Director – Engineering & Construction Ron Spooner, Chief of Engineering Christopher Bergeron, Mechanical Engineering Irma Plummer, EDBP Dexter Joseph, Budget Willie Mingo, Purchasing Rosita Thomas, Finance

### Sewerage & Water Board of New Orleans: Change Order Approval Form

Contract #_1395 P/O#	Date: 4/5/2018
Project Name: Water Hammer HMP – Elevated Storage Tanks Job/Pr	roject #1395FEM
Reason for Change Order: FCOs 34, 35, and 45 – Emergency Work – Temporary	Backwash Facility
Change Order Amount: \$1,715,227.26 Contract Amount Prior To Char	
Original Contract Amount: \$33,570,152.00 Total Spent to Date:	· · · · · · · · · · · · · · · · · · ·
PW#: 18836 Vendor: B&K Construction	
C. P. Item # <u>175</u> / <u>100</u> % C. P. Item # / %	C. P. Item #%
Source of funding for Change Order:	
System Funds: \$ 1,715,227.26 Bonds: \$ FEMA: \$ _	Anticipated FEMA: \$
Total Funding: <u>\$ 1,715,227.26</u>	
FUND Code CAP ORGN Code 7100 ACTIVITY Cod	e OBJECT Code <u>3296</u>
Total Project Investment to Date: (Place total amount of contracts on projects)	
Survey Phase	\$
Design Phase	\$ 6,204,284.25
<ul> <li>Testing Phase</li> </ul>	\$ 167,850.76
<ul> <li>Value of A/E Contract for this work to Date:</li> </ul>	\$ 6,372,135.01
<ul> <li>Construction Contract Value to Date:</li> </ul>	\$ 37,595,697.14
<ul> <li>Value of Project Management to Date:</li> </ul>	\$
Value of other Professional Services to Date:	\$
Total Investment to Date:	\$ 43,967,832.15
RECORDATION	
<ul> <li>Is this change order more than 10% of the original contract and more than \$1</li> <li>Does this change order put the total % of change orders above 20% of the original that is the properties of the answer is yes to either one of these questions recordation is required by change orders have not yet been recorded they must be recorded at this time.</li> <li>VENDOR SELECTION AND DBE INFORMATION</li> <li>Type of Procurement Used: Public Bid</li> <li>Local Vendor: Yes No. If Yes, % 5</li> <li>DBE: No. If Yes, % 5</li> </ul>	ginal contract and is it more than \$100,000?   Yes   No y state law within 30 days. If the original contract and/or previous

### Sewerage & Water Board of New Orleans: Change Order Approval Form

2018

### **ACTION CRITICAL**

Objective consideration of alternatives: Describe other actions considered. If none, explain why

I recommend approval for the above project (If not recommend previous signatory)	mending for approval, please Indicate a reason below, and return this to the
Level Two (2) Project Manager, S&WB, Engineering Depart	
Requested Response Date: / /	Date: 4/5/18
Level One (1) Manager, S&WB. Engineering Department Requested Response Date:     Amount	Date: 4/5/18
Deputy Director, General Superintendent, S&WB, Engine Requested Response Date:	eering Department
June A alam	Date: 04/04/20.8
<ul> <li>Irvin Carter, Fiscal Manager, PDU</li> <li>Requested Response Date://</li></ul>	
	Date:
Executive Director, S&WB Requested Response Date://	
	Date:
Willie Mingo, Director of Procurement, S&WB	
Requested Response Date://_	Date:

### SCOPE OF CHANGES Contract 1395 (Change Order No. 3)

ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

1         34         Emergency Work - Temporary Backwash Facility - T&M Phase II         \$597,677.86         1         \$597,677           2         35         Emergency Work - Temporary Backwash Facility - T&M Phase III         \$931,733.24         1         \$931,733.24         1         \$185,816           3         45         Emergency Work - Temporary Backwash Facility - T&M Phase III         \$185,816.16         1         \$185,816	삙	Item# FCO#	Detailed Description	Units	Unit Price	Ouantity	Amount	Days	Comments
Emergency Work - Temporary Backwash Facility - T&M Phase II \$931,733.24 1  Emergency Work - Temporary Backwash Facility - T&M Phase III \$185,816.16 1		34	Emergency Work - Temporary Backwash Facility - T&M Phase I		\$597,677.86	-	\$597,677.86	37	
Emergency Work - Temporary Backwash Facility - T&M Phase III \$185,816.16 1	ا	35	Emergency Work - Temporary Backwash Facility - T&M Phase II		\$931,733.24	-	\$931,733.24	15	
		45	Emergency Work - Temporary Backwash Facility - T&M Phase III		\$185,816.16	1	\$185,816.16	4	
2171.9									
3171.8	П								
							\$ 1,715,227.26	96	

CONTRACT DAYS BASE	Original Contract Days 730	Days Previously Added 267	Days this Change Order 96	Days Added to date 363	REVISED CONTRACT DAYS 1093
CONTRACT	33,570,152.00	4,025,545,14	1,715,227.26	5,740,772,40	39,310,924.40
)	Original \$	Amount of previous Change Orders S	Amount this Change Order S	Change Orders to date 5	REVISED CONTRACT AMOUNT S

~	_		1
COMPLETION	11/9/2016	11/9/2018	11/7/2019
FINAL C	er Date	n Date	added
	Work Ord	l Completic	ate w/ days
		Origina	Revised D

% OF ORIGINAL CONTRACT AMOUNT
This Change Order 5.1%
Previous Change Order 12.0%
TOTAL TO DATE 17.1%

It is mutually sgreed to perform and accept the above revisions in accordance with the original contract and applicable specifications for the above price. This Change Order includes all OH and Profit fees associated with the work. No additional fees shall be awarded after acceptance of this Change Order

Blake Andrews B&K Construction Co. m 800 Proposed By:

Chris Bergeron Mechanical Engineering Recommended By:

Melyin R. Spooner Chief of Engineering

### CHANGE ORDER NO. 2 FOR CONTRACT 1368 – HAZARD MITIGATION GRANT PROJECT OAK STREET PUMPING STATION

**WHEREAS**, the Sewerage and Water Board entered into Contract 1368 with MR Pittman Group in the amount of \$23,092,500. for FEMA funded repairs to the Oak Street Pumping Station and,

WHEREAS, This change order represents the following four work items: FCO-008 Relocation of the Duct Bank, FCO-009 New Vault Design Valve 54, FCO-010 Vacuum Pump Electrical Change and FCO-011 Sealing the Pump Station (as detailed in the Scope of Changes Form) and.

WHEREAS, this Change Order, in the amount of \$256,436.17, brings the accumulated Contract change order total to \$1,559,479.44, or 6.8% of the original Contract value, and

**NOW THEREFORE BE IT RESOLVED,** that approval of Change Order No. 2 for Contract 1368 is ratified by the Sewerage and Water Board of New Orleans.

I, Bruce Adams, Interim General Superintendent,
Sewerage and Water Board of New Orleans, do hereby
certify that the above and foregoing is a true
and correct copy of a Resolution adopted at the Regular
Monthly Meeting of said Board, duly called and held,
according to law, on April 18, 2018.

BRUCE ADAMS, INTERIM GENERAL SUPERINTENDENT SEWERAGE AND WATER BOARD OF NEW ORLEANS



### Sewerage & Water Board

### **Inter-Office Memorandum**

Date:

April 5, 2018

From:

Bruce Adams

Interim General Superintendent

To:

Marcie Edwards

Interim Executive Director

Re:

Contract Number 1368 - HAZARD MITIGATION GRANT PROJECT OAK STREET

D adams 12018

PUMPING STATION.

Enclosed please find a recommendation from the Chief of Engineering for approval of Change Order No. 2 for the above contract.

The awarded Construction cost for this Contract was \$23,092,500. and Construction commenced upon the date of the "Commencement of Contract Time" letter dated April 17, 2017. This Change Order does not extend the length of the Contract which is 790 calendar days, therefore; the projected Substantial Completion date is April 17, 2019. The required DBE participation on this Contract is 11% and the current participation is 0.01%.

This Change Order is in the amount of \$256,436.17 represents 1.1% of the original bid amount, and brings the cumulative total Change Orders to \$1,559,479.44. Funds for this Change Order are available through the Hazard Mitigation Grant.

This change order is comprised of the following field change orders:

FCO-008

Relocation of Duct Bank, \$366,363.18

FCO-009

Credit New Vault Design Valve 54, -\$188,526.66

FCO-010

Vacuum Pump Electrical Change, \$5,532.65

FCO-011

Sealing the Pump Station, \$73,067.00

I would appreciate you forwarding this to the attention of the appropriate committees of the Board for consideration and approval.

cc:

M. Ron Spooner Alvin Porter Rosita Thomas Willie Mingo Christopher Bergeron Yahya Rokayak, CH2M

### Sewerage & Water Board of New Orleans: Change Order Approval Form

2018

Contract #1368 P/O#	A Date: 4/5/18
Project Name: Oak Street Pump Station	Job/Project # <u>1368</u>
Reason for Change Order: There are four work items associated to thi	s change order, please see FCO's 8-11.
Change Order Amount: \$256,436.17 Contract	t Amount Prior To Change Order: \$24,395,543.27
Original Contract Amount: \$23,092,500.	Total Spent to Date:
PW#: GRANT DR-1603-LA Vendor: MR Pittman Group	
C. P. Item#/	% C. P. Item #%
Source of funding for Change Order:	
System Funds: \$ Bonds: \$ FEN	Anticipated FEMA: \$
Total Funding: \$	
FUND Code ORGN Code 7100 ACTIV	VITY Code OBJECT Code
Total Project Investment to Date: (Place total amount of contracts on pro	ojects)
Survey Phase	<u>N/A</u>
Design Phase	<u>N/A</u>
<ul> <li>Testing Phase</li> </ul>	<u>N/A</u>
<ul> <li>Value of A/E Contract for this work to Date:</li> </ul>	\$851,749.00
<ul> <li>Construction Contract Value to Date:</li> </ul>	\$24,395,543.27
<ul> <li>Value of Project Management to Date:</li> </ul>	\$167,433.00
<ul> <li>Value of other Professional Services to Date:</li> </ul>	\$381,343.00
<ul> <li>Total Investment to Date: \$25,796,068.27</li> </ul>	
RECORDATION	
<ul> <li>Is this change order more than 10% of the original contract and more</li> <li>Does this change order put the total % of change orders above 20% o</li> <li>If the answer is yes to either one of these questions recordation is recording orders have not yet been recorded they must be recorded at</li> </ul>	f the original contract and is it more than \$100,000? [ ] Yes [ ] No quired by state law within 30 days. If the original contract and/or previous
VENDOR SELECTION AND DBE INFORMATION	
Type of Procurement Used: [Public Bid] Local Vendor:	

### **ACTION CRITICAL**

Objective consideration of alternatives: Describe other actions considered. If none, explain why

 I recommend approval for the above project (If not recommending for approval, please indicate a reason below, and return this to the previous signatory)

### Sewerage & Water Board of New Orleans: Change Order Approval Form

110	Date: 4/5/18
Level Two (2) Project Manager, S&WB, Engl	
Requested Response Date: _/	/ /
11/2	Date: 4/5/18
•Level One (1) Manager, S&WB, Engineering	g Department
Requested Response Date:	Date: 4/5/18
The standard standard	
Deputy Director, General Superintendent, Requested Response Date:	, Saws, Engineering Department
Requested Response Date.	2
Dune N (	adam Date: 04/06/201
<ul> <li>Irvin Carter, Fiscal Manager, PDU</li> </ul>	
Requested Response Date://_	
	Date:
<ul> <li>Executive Director, S&amp;WB</li> </ul>	
Requested Response Date://_	
	Date:
<ul> <li>Willie Mingo, Director of Procurement,</li> </ul>	S&WB
Requested Response Date://_	Date
	Date:

## SCOPE OF CHANGES Contract 1368, HMGP (Change Order No. 2)

# ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

Item #	FCO#	Detailed Description	Units	Unit Price	Ouantity	Amount	Days	Comments
-	00	Relocation of Duct Bank	LS	\$366,363.18	1	\$366,363.18	0	Eligibility to be determined by S&WB
2	6	New Vault Design Valve 54	LS	-\$188,526.66	1	-\$188,526.66	0	Eligibility to be determined by S&WB
m	10	Vaccum Pump Electrical Change	rs	\$5,532.65	1	\$5,532.65	0	Eligibility to be determined by S&WB
4	11	Sealing the Pump Station	rs	\$73,067.00	1	\$73,067.00	0	Eligibility to be determined by S&WB
						\$256.436.17	0	
Į			Original	(4)		Original Contract Days	ect Days	BASE 790
Current	Current DBE % Forecasted DBE %	Amount of previous Change Orders O.01% Amount this Change Orders Change Orders to date	ge Orders ige Order its to date	\$1,303,043,27 \$256,436,17 \$1,559,479,44		Days Previously Added Days this Change Order Days Added to date	y Added e Order I to date	000
		REVISED CO	MOUNT	\$ 24,651,979.44		REVISED CONTRACT DAYS	T DAYS	790
	% OF (	% OF ORIGINAL CONTRACT AMOUNT This Change Order 1.1%		Work Order Date: 4/17/2017	4/17/2017			
		5/5/6 5/8/6	intract Fins	Contract Final Completion Date: 6/16/2019	6/16/2019	_		
it is metandly tentement of	y agend to per. (The matters so	il is manually agenced to perdoom and accoparative revisionate in accordance with the original contracted and applicable specifications for the above parts. It is funders appeared that signing the change change change in the parts of the nature of the na	s change order if na nim is limito	on the DBE requirement is be to and applies to any claims	ing and as per the Co	atract requirements. This count of the matters dear.	Clarge Order	recessioners a full and complete forth in this agreement.

Approved By: Recommended By:

Representative MR Pittman Group

S&WB Project Manager Christopher Bergeron

M./Ron Spooner S&WB Chief of Engineering

2018.03.23 CN 1368 CO-02 SCO\_CoE\_Memo.xdxx

CONTRACT AMENDMENT NO. 5 TO THE AGREEMENT BETWEEN THE SEWERAGE AND WATER BOARD OF NEW ORLEANS AND CH2M HILL ENGINEERS, INC FOR PROGRAM MANAGEMENT AND DESIGN AND ENGINEERING SERVICES FOR THE RETROFIT POWER PLANT HAZARD MITIGATION GRANT PROJECT

WHEREAS, by action of the Board through the adoption of Resolution R-014-2017, Consultant was awarded the agreement for design and engineering services for the Retrofit Power Plant Hazard Mitigation Project at the Carrollton Water Treatment Plant, the Oak Street Raw Water Intake and Pump Station and the Board's power network on the East Bank of the city of New Orleans; and

**WHEREAS**, by action of the Board through the adoption of Resolution R-118-2014, the existing agreement with Consultant was increased to \$16,438,004; and

**WHEREAS**, by action of the Board through the adoption of Resolution R-029-2015, the existing agreement with Consultant was increased to \$17,516,243; and

**WHEREAS**, by action of the Board through the adoption of Resolution R-112-2015, the existing agreement with Consultant was increased to \$22,486,308; and

**WHEREAS**, by action of the Board through the adoption of Resolution R-014-2017, the existing agreement with Consultant was increased to \$28,385,244; and

**NOW THEREFORE BE IT RESOLVED**, that the President and/or President Pro Tem shall be authorized to execute the amendment to this agreement with CH2M increasing the fee authorized to be paid to CH2M by \$6,796,987.00 and extending the contract period to April 12, 2019.

I, Bruce Adams, Interim General Superintendent,
Sewerage and Water Board of New Orleans, do hereby
certify that the above and foregoing is a true
and correct copy of a Resolution adopted at the Regular
Monthly Meeting of said Board, duly called and held,
according to law, on April 18, 2018.

BRUCE ADAMS, INTERIM GENERAL SUPERINTENDENT SEWERAGE AND WATER BOARD OF NEW ORLEANS



### SEWERAGE AND WATER BOARD OF NEW ORLEANS

### Inter-Office Memorandum

04/04/2018

Date: April 6, 2018

From: Bruce Adams, P.E.

Interim General Superintendent

To:

Marcie Edwards

Interim Management Team

Re:

Contract Amendment No. 5 - CH2M Hill Engineers, Inc.

Program Management of Hazard Mitigation Grant Program

Please see the attached letter from the Chief of Engineering recommending approval of Contract Amendment No. 5 for Additional Program Management and Construction Management Services performed by CH2M Hill Engineers, Inc. (CH2M).

CH2M has supported the Sewerage and Water Board of New Orleans in Program Management of the Hazard Mitigation Grant Program Power Plant Retrofit, since inception in 2013. CH2M has been provided annual contract amendments from 2014 through 2017, based upon annual forecasted construction spend and required activities to support ongoing management, design, and construction associated with the Program. The Professional Services contract with CH2M expires on April 12, 2018. CH2M is requesting a contract extension of twelve (12) months to April 12, 2019 and an addition of \$6,796,987.00 to complete the scope of Amendment 5.

The specific details and level of effort include program and construction management activities associated with Contract 1368-Oak St Pump Station Rehabilitation, Contract 1369-Emergency Fuel Storage Facility, Contract 1370-Boiler House Modifications, Contract 6247-Turbine Generator No.4 and Contact 6249-Electrical Network Feeder Upgrades and the cooling water system study. The scope also includes all administrative functions of the entire HMGP on a programmatic level.

The required DBE participation goal will remain the same as per the original contract goal of 35%. This Contract Amendment request brings the cumulative total of Contract Amendments to \$35,182,231.00.

I would appreciate you forwarding this request to the attention of the appropriate committees of the Board for their consideration and approval.

Cc:

M. Ron Spooner, Chief of Engineering Eric Labat, Interim Chief of Operations

Willie Mingo, Procurement

Legal Dept



### SEWERAGE AND WATER BOARD OF NEW ORLEANS

### Inter-Office Memorandum

Date:

April 6, 2018

From:

M. Ron Spooner, P.E. Chief of Engineering

To:

Bruce Adams, P.E.

Interim General Superintendent

Re:

Contract Amendment No. 5 - CH2M Hill Engineers, Inc.

Hazard Mitigation Grant Program Management

Enclosed please find a recommendation for approval of Contract Amendment No. 2 for the above captioned contract. This amendment extends CH2M's current contract term which expired on April 12, 2018 by twelve (12) months to April 12, 2019. The amendment also authorizes an increase of fees by \$6,796,987.00, bringing the cumulative total of the contract to \$35,182,231.00.

Original Contract Award Amount:	\$12,497,750.00
Previous Approved Contract Amendments:	\$15,887.494.00
This Contract Amendment Amount:	\$6,796,987.00
Total Cumulative Dollar Contract Amendment Amount:	\$35,182,231.00

Contract DBE Participation	35%
Forecasted DBE Participation through 2018	22%

The Engineering Department has reviewed this proposal and is recommending it for approval.

I concur:

1 alam Date: 04/06/2018 Bruce Adams, P.E.

Interim General Superintendent

Cc:

Willie Mingo, Procurement Rosetta Thomas, Finance Director Eric Labat, Interim Chief of Operations Legal Dept.

# AMENDMENT No. 5 PROGRAM MANAGEMENT OF HAZARD MITIGATION GRANT PROGRAM POWER PLANT RETROFIT CH2M HILL ENGINEERS, INC

## ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

CONTRACT DBE %	3E %
Contract DBE%	35%
Current DBE%	22%

22,684,481.00	69	Amendments to date
6,796,987.00	69	Amount of this Amendment 8
15,887,494.00	69	Amount of Previous Amendments
12,497,750.00	S	Original Contract Amount S
		CONTRACT AMOUNT

6,796,987.00

69

TOTAL

REVISED CONTRACT AMOUNT \$ 35,182,231.00

It is mutually agreed to perform and accept the above revisions in accordance with the currently ammended contract and the applicable specifications for the above price.

Recommended By:

Proposed By:

Carlos Giron CH2H Hill Engineers, Inc.

4/6/2018 Date

M. Ron Spooner, P. F. Chief of Engineering

Date

1 of 1

1515 Poydras Street, Suite 1550 New Orleans, Louisiana United States, 70112 www.ch2m.com

Mr. Bruce Adams
Interim General Superintendent for Engineering and Construction
Sewerage and Water Board of New Orleans
8800 South Claiborne Ave,
New Orleans, LA 70118

April 6, 2018

Subject: Hazard Mitigation Grant Program (HMGP) Proposal for 2018 Activity

Dear Mr. Adams,

The Sewerage and Water Board of New Orleans and CH2M have a long-standing partnership of delivering critical infrastructure for the City of New Orleans, during the economic rebound following Hurricane Katrina and most recently following the August 5, 2017 rain event. We are proud of what we have accomplished together over the years, and are looking forward to continued delivery progress together in 2018 and beyond.

A scope of work for continuing services in 2018 for each contract package is provided herein for your review and consideration, with critical milestones and work phases in 2018 as the following:

- ✓ Project Completion: Generator 4 (6247) completed in May 2018, with follow-on work continuing afterwards and completed by the end of 2018. Completion of these projects will return the 20 MW 25-Hz turbine generator to service with updated operational protocols and controls.
- ✓ Active Bid Phase: Powerhouse General (1370) to be bid in Q2 2018, with an estimated contract value of \$49M the largest contract value in the Power Plant Retrofit program portfolio.
- ✓ Construction Delivery: Continuing construction spending of 5 active construction projects with an estimated combined value of \$35.5M for the 2018 calendar year, with contractor mobilization for 1370 anticipated in Q3 2018.

0	Oak Street Pump Station (1368)	\$13,877,996
0	Emergency Fuel Storage (1369)	\$3,369,940
0	Boiler House Modifications (1370)	\$4,674,786
0	Turbine Generator 4 (6247)	\$5,936,088
0	Network Feeders Project (6249)	\$7,612,976

The ramp-up in construction spending in 2017 continues into 2018, with the addition of CP-1370 to the active construction project list. of Turbine Generator 3 (1373) and Turbine Generator 5 (1372), which have been currently placed on hold, design on all projects is substantially complete. The Structural General project (1371) is currently in closeout and will be fully closed in 2018. Figure 1 shows the current forecasted construction schedule for the remainder of the program.

### Technical Engagement and Leveraged Resources

Rodney Carpenter joins the Generator 4 team to provide day-to-day project management of this important contract, bringing 24 years of experience in power generation. Multiple critical team members from CH2M's Emergency Response program will be retained on the HMGP program to leverage knowledge of SWBNO processes and equipment gained as part of that work, including Shane Dempsey - Startup and Commissioning Manager for Generator 4, Sonya Reiser - Design and Quality Control Manager, and Kaitlin Tymrak — Business Services Manager. Additionally, Yahya Rokayak has assumed the roles of Delivery Manager and Program Manager, following the successful delivery of the Emergency Pumps Task Force scope, which managed over \$7M of contractor work in 5 months. Key team members from the 2017 project

delivery organization, including Denny Brestle and Ron Menze all with HMGP or industry power experience, have been maintained and supplemented with additional resources, particularly around power generation.

We are confident that this proven team can efficiently deliver this comprehensive schedule of work.

### Amendment Value

A streamlined and focused construction delivery team, in combination with a rate structure negotiated by SWBNO with CH2M in 2017, has resulted in a management fee near the same level to support the doubled construction spend in 2018. Rates were negotiated on a fixed Time and Materials for services performed.

The sum of funds requested to support the full schedule of HMGP activities in 2018, totals \$6,766,199 to include services by CH2M, ILSI, and Trigon.

Project	2018 Proposed Program Budget	Work Phase	Partner Company
CP-1368	\$447,301	Construction Management and Administration	CH2M Engineers Inc
Oak Street Pump Station	\$511,799	Construction Administration and Inspection	Integrated Logistical Support Inc
CP-1369	\$341,309	Construction Management and Administration	CH2M Engineers Inc
Emerency Fuel Storage	\$341,780	Construction Administration and Inspection	Trigon Associates LLC
CP-1370 Power House General	\$885,583	Project Management, Final Design, and Bidding Services	CH2M Engineers Inc
CP-1371 Structural General	\$10,252	Construction Management (Closeout)	CH2M Engineers Inc
CP-6247 Generator 4 Retrofit	\$1,227,662	Construction Management and Inspection	CH2M Engineers Inc
	\$342,141	Construction Management and Administration	CH2M Engineers Inc
CP-6249  D/B Retrofit Power Plant	\$248,160	Inspection	Integrated Logistical Support In
Network	\$102,952	Construction Management and Administration	Trigon Associates LLC
CP-6250 Load Bank for ST4 Testing	\$11,221	Construction Management	CH2M Engineers Inc
Cooling Water System Analysis	\$400,338	Evaluation and Engineering	CH2M Engineers Inc
	\$1,608,997	Program Management	CH2M Engineers Inc
Program Management	\$317,495	Program Management	Integrated Logistical Support In
	\$6,796,987		

We understand that this is a pivotal time period for the Board, and the city of New Orleans. We are proud to be partners in this most critical infrastructure project and are confident in our ability to deliver the defined HMGP scope in 2018. We look forward to addressing any question and to continued service to your team.

Sincerely,

Yahya A. Rokayak Program Manager

Yahya.Rokayak@ch2m.com

Gahya A. Rokayak

Jonathon Childs Vice President

Jonathon.Childs@ch2m.com

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### Amendment 5 to the Professional Services Agreement Sewerage and Water Board of New Orleans And CH2M Engineers, Inc.

### For

### Program Management and Design and Engineering Services for the Retrofit Power Plant Hazard Mitigation Grant Project

This Amendment 5 is to the Professional Services Agreement dated April 12, 2017, between the Sewerage and Water Board of New Orleans (SWBNO) and CH2M Engineers, Inc. (CH2M). The Scope of Work (SOW) is for continuing services in 2018, for a 12-month period beginning from date of signed contract amendment.

### Scope of Work

CP-6247 and CP-6250: Generator 4 Retrofit and Load Bank

### Initial Startup

Scope of work includes project management, construction management, and startup/commissioning services for Generator 4; Additional project and construction management, as well as closeout activities, are included for the Generator 4 load bank testing, which is expected to be completed concurrently with Generator 4.

### **Final Completion**

Following startup of Generator 4 in May, the following additional items will be conducted by the contractor, requiring continuing project and construction management services by CH2M: 1) design, purchase, and installation of a new motor control relay; 2) purchase and installation of steam air ejectors for Generator 4; 3) new batteries; 4) new transformers; 5) cables; 6) new motor control center. This work is slated for a Q4 completion. Therefore, CH2M's costs are through December 2018 in this amendment.

### CP-6249: Retrofit Power Plant Network (Design/Build)

Project and construction management services will continue in 2018. This contract is in construction with anticipated work completion in Q3 2019.

### CP-1368: Oak Street Pump Stations

Project and construction management services will continue in 2018. This contract is in construction with anticipated work completion in Q2 2019. Continued engineering services during construction are anticipated due to unanticipated field conditions requiring numerous contractor RFIs, as observed in 2017 and 2018 construction execution to-date.

### CP-1369: Emergency Fuel Storage

Project and construction management services will continue in 2018. This contract is in construction with anticipated work completion in Q1 2019.

### CP-1370: Power House General Contract

This contract is scheduled to proceed to bid in Q2 2018. Final engineering services include: 1) revision of a limited number (18) of drawings to reflect changes to the power house since completion of the 100% design package in July 2017; and 2) design for replacing two deaerator units that are a part of the boiler water treatment system. Bidding services, project management and engineering services during construction are included in this amendment, with the assumption that contractor mobilization will occur in Q4 2018. Note that construction management services are NOT included in this proposal or scope of services. Accordingly, CH2M will not maintain this project in the overall programmatic oversight function. Services during construction will be limited to attending progress meetings, reviewing RFIs, reviewing submittals, and providing engineering support; schedule management, cost control, and change management are not included.

### CP-1371: Structural General Contract

Contractor work on this project was completed in Q4 2017. CH2M costs included in this amendment are related to final closeout of the contract.

### CP-1372: Turbine 5 Refurbishment

No CH2M or contractor charges are included in this amendment. CH2M will not maintain this project in the overall programmatic oversight function. Services during construction will be limited to attending progress meetings, reviewing RFIs, reviewing submittals, and providing engineering support. Schedule management, cost control, and change management are not included.

### CP-1373: Turbine 3 Refurbishment

No CH2M or contractor charges are included in this amendment. CH2M will not maintain this project in the overall programmatic oversight function. Services during construction will be limited to attending progress meetings, reviewing RFIs, reviewing submittals, and providing engineering support. Schedule management, cost control, and change management are not included.

### Cooling Water System Study

The steam turbines at the Sewerage and Water Board Carrollton power plant require cooling water to generate electricity. As this water enters each of the steam turbine boilers the temperature should be about 87 degrees F. Currently the water enters the boiler at about 95 degrees F. This means that the existing cooling water system is not sufficiently cooling the water before it returns to the boilers. At the request of the Sewerage & Water Board Engineering Department, CH2M will perform a complete water system analysis.

### Task 1 Code Review:

Regulatory Code review will determine which alternatives will be analyzed in Task 3

### Task 2 Data Collection and Inspections:

- Site inspection and Data Collection
- Prepare Process Flow Diagram (PFD)
- System Capacity Calculations

### Task 3 Alternatives Analysis:

- Alternative 1A Refurbish existing system
- Alternative 1B Utilize existing water plant infrastructure / basins
- Alternative 2 Install new cooling towers

The above-mentioned tasks will be compiled in a Preliminary Design Report (Technical Memorandum) summarizing the results, alternatives, cost estimate for each alternative, and a level 1 schedule for construction.

### Assumptions for this scope:

- Exploratory inspection services may be required, and will be further defined based on the initial visual inspection.
- Existing drawings of the cooling water system do not accurately represent the current configuration of the equipment.

### Program Management and Senior Engineering Resources

Continuing program management services include but are not limited to the following: Programmatic level reporting 1) biweekly and monthly reporting of all contracts as requested by SWBNO; 2) program-wide controls, including scheduling, cost analysis, change management, independent cost estimates, contract invoice review and processing, risk management, and document controls; 3) quality management and program engineering support to provide consistency of delivery and meet quality requirements amongst all contracts; and 4) overarching senior leadership on the delivery and engineering services components of the program.

### **Assumptions**

- CH2M will obtain written direction before accepting additional tasks under this Amendment.
- This scope of work is limited to design, construction management (without dictating means or methods), and consulting services as identified in the paragraphs above; no direct supervision of SWBNO employees will occur.
- CH2M is not operating facilities and thus will not be responsible for any operational violations or compliance issues.
- CH2M may reasonably rely upon the accuracy of the information provided by SWBNO employees and Contractors.
- CH2M will not be responsible for the quality and completeness of information provided by SWBNO employees and SWBNO Contractors, nor for acts by SWBNO employees and its Contractors.
- CH2M will not be responsible for monitoring or oversight of facilities not in this scope, including those adjacent to work sites.
- CH2M will not be responsible for FEMA grant management or reimbursement.

2018 CH2M Amendment 5 Detailed Cost Estimate 4.6.2018

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Project Management During Construction Phase	Construction Phase				344,328,00 \$		
	STEWART JOHN	Construction Manager	CHEM	2400 \$	344,326,00 \$		
Inspection				2200	422,400.00 \$	9.	
	HECK BRIAN	Inspector	11.51	2200	422,400,00 \$	*	
Construction Administration				\$00	133,021,10 \$	5,350,00	
	KANSAGRA, MAGAN	Mechanical Engineer	ICSI	80 8	17,072,00 \$	350,00	
	KESKAR, P. Y.	Electrical Engineer	ILSI	170	66,976.60 \$	5,000,00	
	STICKLEY, MICHAEL C	Lead Engineer and Quality Management	CHZM	250 \$	50,972,50 \$		
Expense					w/b w/f	52,000.00	
CP-1369 Emergency Fuel Storage (Phase 2)				3,745 \$	632,089 \$	\$ 000'15	683,089
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1.00	BROWN, TIM	Construction Manager	CHSM	2200	282,996,00 \$	* 000	
Inspection	CANADA G		Triona	1500	153,450,00 \$	1,000,00	
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	KOLENDVSKY, GREGORY	Sanidr Engineer	Trigon	50	22,590.00 \$		
	NAGRATH LISBETH	Load Engineer	Trigan	006	164,340,00 \$		
	REISER, SONYA	Cuality Management	CHEM	50 8	8,313,01 \$		
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	CARPENTER ROONEY	Technical Specialist	CHZM	500	124 320 00 \$	,	
Final Design				2535 \$	498,658,70 \$		
	JALINSKY, MIKE	Shuctural Engineer	CHEM	300	55,452.00 \$		
	BROGDEN YORK	Electrical Engineer	CHZM	250 \$	59.627.50 \$	9	
	CORETZKY, THOMAS C.	Papria Engineer	CHOM		73,374,00		
	IACKRON CHRISTOPHER A	and Machanina Engineer	CHOM	300	14 181 30 S	, ,	
	CONLEY MARK	Structural Designer	CHZM		72,072,00 \$		
	PETRIS, GERALD	Piping Engineer	CHOM		148,386.00 \$		
100000000000000000000000000000000000000	ZORNES, GRETA	Water Quality Engineer	CHSM	75	16,288,00 \$	•	
Edding Services	200000		Parties.	255	54,703.90 \$		
	SADAGE COLLA	Water Coulds Engineer	CHOM	300	A NOBOTO S		
	PETRIS GERALD	Piglio Engineer	CHOM	80 08	16 953 40 \$		
	JALINSKY MIKE	Studium Engineer	CHZNI	90	9,242,00 \$		
	GORETZKY, THOMAS C.	Piping Engineer	CHSW		10,482,00 \$		
Expense					**	25,000,00	
CP-1371 Structural General Contract (Phase 2)				\$ 06	10,252 \$	S .	10.252
Project Management During Construction Phase	g Construction Phase			\$ 08	10,251.90 \$		
	NON	Cleseout	CH2M	80 8	7,918.40 \$		
	PADGETT, PAUL MAXWELL	Closeout	CH2M	ш	2,333,50 \$	7	
CP-5247 Generator 4 Retroffi (Phase 1)	4			6,350 \$	1,056,277 \$	171,385 \$	1,227,552
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Inspection		j.		\$ 009	74,250,00 \$		
-	PAUL, BOBBY	Inspector	CHZM		74,250,00 \$	-	
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2018 CH2M Amendment 5 Detailed Cost Estimate 4.6.2018

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RECONSTRUCTOR   Properties		a Construction Phase			1200	282,996,00 \$	1000	
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CAUSANDAYA REGINA		RAFFIELD, WALTER	Inspector	121	2400 \$	248,150.00 \$	<b>%</b>	
COCKANTER ISSUED   Last Engineer   Tigger   190   5   19,000   5   19,000   5	Construction Administration				640 5	111,788,50 \$	300,00	
Electrical   Frequency   Fre		Ī	Lead Engineer	Thgon	100	18,260.00 \$	300.00	
FIGE SOLVEY   State Engineer   Tiggen   40   \$ 1,445.0   \$ 1,445		COCHARTER, USA	Senior Engineer	Trigon	CS CS	19,360.00 \$		
Victorial Control of Management		KOLENOVSKY, GREGORY	Genier Engineer	Trigon	40	\$ 00.089,8		
WALL NCHOLAS   Field Enginee  Trigon   370   \$ 53.32.00   \$ 50,000.00		REISER, SONYA	Quality Management	CHOM	90	9,144.50 \$		
PRESTILE DENNISE   Last Construction Philase   60   11,120   5,00,000.00		WALL NICHOLAS	Field Engineer	Trigon	370 \$	55,352,00 \$		
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Part	P-6250 HHGP Load Bank for ST4 Testing (Phase 1)				\$ 08	11,221 \$	•	11,221
SHESTLE DENNIS E   Lead Construction Manager   CICIM   SHESTLE	Project Management During	a Construction Phase			\$ 09	11,220.50 \$		
TBD		BRESTLE, DENNIS E	Lead Construction Manager	CH2M	80	11,220.60 \$		
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TBD   CAD Technical   CHZM   40   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		180	Water Engineer	CHZM	200	48,768.00		
The County belows		DBT	CAD Technician	CHZM	40	3,059,20		
Alternatives Analysis   TBD		OBL	Quality Review	CHZM	25	4,572.25		
Alternative Analysis   TBD		TBD	Inspection Services	CEL	69	•	20,000.00	
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TBD		TBD	I&C Engineer	CH2M	320 \$	76,323.20		
TBD   CAU Technician   CH2M   120 \$ 11,87760		OBT	Weter Engineer	CHSM	320	78,028.80		
PEO   Cost Estimated   TBD   Cost Estimated   CH2M   T40   \$ 3,500,00 \$			CAD Technician	CHZM	120	11,877.60		
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Program Repeter   Program Annotation Services   Program Annotation Services   Program Annotation Services   Program Manager   CHZM   1200   5   220,672.00   5	Program Administration					1,247,743,20 \$		
Program Management   Program Centrol Lead   CHZM   500 S   220,672.0 S		KAMMERER, WILLIAM	Scheduler	1571	1200 \$	209,695.20 \$		
Program Contributed		BRUCE, PAUL	Project Controls Lead	CH2M	800	220,672,00 \$	7	
Program Certified Services		DEGRUSHE DANIELLE MARIE	Program Administration Lead	CH2M	1300	121,628.00 \$	,	
STUCKEY CHAREN   Program Reporting   CHZM   400   S   ST21,800   S		FLORES, OSCAR A	Program Cost Controls	CH2M	800	168,536.00 \$	,	
STUCHEY, CHRISTINE		SMITTLE KAREN	Program Reporting	CHZM	400	84,652.00		
TACROUS, CHRISTINE   Document Controls Manager   U.S.   1000   \$   107,800,00   \$   142,5		STUCKEY, CHRISTINE	Project Coordinator	CHZM	2000	212,180.00 \$	,	
Program Management         CHZM         TODO         \$         142,580,00 s         \$           Program Management         GRESTLE DELVISE         Program Construction Manager         CHZM         1000         \$         1671,613 b         \$           CYRIER, ALAN         HSS Manager         CHZM         20         \$         173,513 b         \$           Program Technical Services         Program Manager         CHZM         20         \$         392,700 b         \$           Program Technical Services         MENZE, RONALD         Power Generation Sanior Engineer         CHZM         250         \$         55,235 00         \$           Program Expense         Expense         Second         \$         55,235 00         \$		TADROUS, CHRISTINE	Document Controls Manager	18	1000	107.800.00		
Program Management         ERESTLE DENNIGE         Program Continuation Manager         CH2M         2673 573 50 5         \$73,573.60 5           Program Technical Services         FOKAYAK, YAHYA         Program Manager         CH2M         20         \$ 32,770.00 5           Program Technical Services         FOXAYAK, YAHYA         Program Manager         CH2M         1600         \$ 32,770.00 5           Program Technical Services         MENZE, ROMALD         Power Generation Sanior Engineer         CH2M         250         \$ 55,235.00 5           Program Expense         CH2M         250         \$ 55,235.00 5		TYMBAK KAITUNG	Business Management	CH2M	1000	142 580.00 \$		
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						49	50,000,00	

CH2M - HMGP Project - Amendment 6 Proposal Expense Summary 4.6.2018

Design PgM Justification	ohn Stewart (TDA, 12 months), ILSI (CA)	Tim Brown (TDA, 12 months); local inspector miscellaneous	Travel for design team during final deserator design, bidding services, and construction lackoff (4 trips)	Bob Earls (TDA, 8 months); Shana Dempsey (S/U, 8 months); Rodney Carpenter (PM, 12 months); Test	Engineer (8 weeks); local inspector miscellaneous	Tim Brown (TDA, 12 months); Trigon miscelleneous expenses	50,000 Travel associated with senior program manager for 6 months	
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CM	57,350.00	51,000.00			\$171,385,00	50,300.00		\$ 320'022 \$
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E	Chit	Unit Price	# Units	Total	=	Notes
AC	S7	\$ 3,500.00	0.5	w	1,750.00	
Rental Truck	WO	\$ 1,800.00	0.5	S	900,00	rents on a biweekly basis
Gas	WK	\$ 150,00	2	Ŋ	300.00	
//scellaneous	ā	\$ 117.00	-	v	117.00	
irfare	ā	\$ 1,100,00	,	60	1,100.00	Travel home 2x per month
		Mor	nthly Subtatel	49	4,167.00	
			2 month total	и	50.004.00	

Bob Earls Unit Unit Price # Units 7 2500.00  VMK \$ 200.00  LS 3,500.00  Monthly Subtotal \$ 4,391.56  T2 month total \$ 52,578.75  T2 month total \$ 52,578.75  Bob Earls Unit Price # Units Total  VMK \$ 200.00  EA \$ 700.00  EA \$ 7	Item	5	5	Unit Price	# Units	Total	100	Notes
Sob Earls	TDA	ST	1/3	3,500.00	~	U)	3,500,00	
Bob Earls Unit Unit Price # Units Total LS \$ 3,500,00 1 \$ 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	Mileage	W	S	0.55		69	306,56	drives personal vehicle; 25 mi/day
Monthly Subtotal \$ 4   Each Earls	Airfare	ā	v	575.00	-	44	575.00	Travel home 2x per month
- Bob Earls Unit Unit Price # Units Toles  LS \$ 3,500.00 1 \$ \$ 3  WK \$ \$ 200.00 4 \$ \$  EA \$ 700.00 2 \$ 1				Mon	thly Subfolal	60	4,381.56	
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Unit Unit Price # Units Total LS \$ 3,500.00 1 \$ 3 WK \$ 2,00.00 4 \$ 6 EA \$ 700.00 2 \$ 1	6247 - Bob Earls							
LS \$ 3,600,00 1 \$ 3 3	tlem	Crit	Unit	Price	# Units	Tol		Notes
WK \$ 200.00 4 %	TDA	SJ	S	3,500.00	<u>_</u>	s	3,500.00	
e EA \$ 700.00 2 \$ 1	Gas	WK	43	200.00	4	S	800.00	drives personal vehicle
	Airfare	EA	49	700.00	2	49	1,400.00	Travel home 2x per month
				90	B months total	41	45.600.00	

6247 - Shane Dempsey					ĺ		
	Cliit	5	Unit Price	# Unite	Ota	100	Notes
9	æ	S	750.00	1	S	750.00	
Hotel	DAY	s	148.00	22	49	3,256.00	
ental Car	DAY	67	50.00	22	60	1,100.00	
Diem	DAY	s	64.00	22	S	1,408.00	
			Month	thly Subtotal	45	5,764.00	
			60	months total	*	46,112.00	

tem	Unit	Unit	Init Price	# Units	Total	-	Notes	
Virlare	æ	S	750,00	-	u)	750,00		
Hotel	DAY	v)	148.00	22	S	3,256,00		
Rental Car	DAY	S	50.00	22	4	1,100.00		
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			Mon	hiy Subtotal	10	5,764,00		
			12	months fofal	45	69.46A.00		

CONTRACT AMENDMENT NO. 2 TO THE AGREEMENT BETWEEN THE SEWERAGE AND WATER BOARD OF NEW ORLEANS AND CH2M HILL ENGINEERS, INC FOR EMERGENCY PROGRAM MANAGEMENT AND STAFF AUGMENTATION OF OPERATIONS MAINTENANCE AND RECOVERY

**WHEREAS**, on August 23, 2017 the Sewerage and Water Board of New Orleans (Board) awarded an emergency contract in the amount of \$3,000,000.00 to CH2M Hill Engineers, Inc. (CH2M) to assist the Board in the areas of Emergency Program Management & Support, Emergency Pump Restoration Program and Emergency Power Program; and

**WHEREAS**, the current term of the contract for Professional Services by CH2M expired on January 30, 2018; and

**WHEREAS**, the Board approved at the November 2017 Board Meeting CH2M's budget amendment request of \$5,489,840.00 to perform additional engineering services; and,

**WHEREAS**, CH2M is requesting a nine (9) month contract extension for performing Project Management, Project Controls, Construction Management and Engineering Services, and,

**WHEREAS**, CH2M is requesting additional funds totaling \$1,265,712.00 for performing Project Management, Project Controls, Construction Management and Engineering Services, and,

**NOW THEREFORE BE IT RESOLVED**, that the President and/or President Pro Tem shall be authorized to execute the amendment to this agreement with CH2M increasing the fee authorized to be paid to CH2M by \$1,265712.00 and extending the contract period to October 30, 2018.

I, Bruce Adams, Interim General Superintendent,
Sewerage and Water Board of New Orleans, do hereby
certify that the above and foregoing is a true
and correct copy of a Resolution adopted at the Regular
Monthly Meeting of said Board, duly called and held,
according to law, on April 18, 2018.

BRUCE ADAMS, INTERIM GENERAL SUPERINTENDENT SEWERAGE AND WATER BOARD OF NEW ORLEANS



## Inter-Office Memorandum

Date: April 6, 2018

From: Bruce Adams, P.E. Burn of aclam 04/06/2018

Interim General Superintendent

To: Marcie Edwards

Interim Management Team

Re: Contract Amendment No. 2 – CH2M Hill Engineers, Inc.

**Emergency Program Management and Staff Augmentation of Emergency Operations** 

Maintenance and Recovery

Please see the attached letter from the Chief of Engineering recommending approval of Contract Amendment No. 2 for Additional Engineering Services performed by CH2M Hill Engineers, Inc. (CH2M).

On August 23, 2017, the Sewerage and Water Board of New Orleans awarded an emergency contract in the amount of \$3,000,000.00 to CH2M to assist the Board in the areas of Emergency Program Management & Support, the Emergency Pump Restoration Program and the Emergency Power Program. On November 15, 2017 the Board approved CH2M's budget amendment request of \$5,489,840.00 to perform additional engineering services. The current term of the Contract for Professional Services by CH2M expired on January 30, 2018. CH2M is requesting a contract extension of nine (9) months to October 30, 2018 and an addition of \$1,265,712.00 to complete the scope of Amendment 2.

The specific details and level of effort include environmental support, program management, administrative support and construction inspection related to Electro-Motive Diesel (EMD) Generator support, construction administration services associated with emergency pump upgrades at DPS No. 1 and DPS No. 4, and communications status reports for power and pumping assets.

The required DBE participation goal will remain the same as per the original contract goal of 10%. This Contract Amendment request brings the cumulative total of Contract Amendments to \$9,755,552.00.

I would appreciate you forwarding this request to the attention of the appropriate committees of the Board for their consideration and approval.

Cc:

M. Ron Spooner, Chief of Engineering Eric Labat, Interim Chief of Operations Willie Mingo, Procurement

Wille Willigo, I rocal cilicin

Legal Dept



## Inter-Office Memorandum

Date:

April 6, 2018

From:

M. Ron Spooner, P.E.

Chief of Engineering

To:

Bruce Adams, P.E.

Interim General Superintendent

Re:

Contract Amendment No. 2 - CH2M Hill Engineers, Inc.

**Emergency Program Management and Staff Augmentation of Emergency Operations** 

Maintenance and Recovery

Enclosed please find a recommendation for approval of Contract Amendment No. 2 for the above captioned contract. This amendment extends CH2M's current contract term which expired on January 30, 2018 by nine (9) months to October 30, 2018. The amendment also authorizes an increase of fees by \$1,265, 712.00, bringing the cumulative total of the contract to \$8,489,840.00.

Original Contract Award Amount:	\$3,000,000.00
Previous Approved Contract Amendments:	\$5,489,840.00
This Contract Amendment Amount:	\$1,265,712.00
Total Cumulative Dollar Contract Amendment Amount:	\$9,755,552.00

Contract DBE Participation 10% Forecasted DBE Participation 5.3%

Date: 04/04/2018

The Engineering Department has reviewed this proposal and is recommending it for approval.

I concur:

Bruce Adams, P.E.

Interim General Superintendent

Cc:

Willie Mingo, Procurement Rosetta Thomas, Finance Director Eric Labat, Interim Chief of Operations Legal Dept.

# AMENDMENT No. 2 EMERGENCY PROGRAM MANAGEMENT AND STAFF AUGMENTATION OF OPERATIONS MAINTENANCE AND RECOVERY CH2M HILL ENGINEERS, INC

## ADDITIONAL ITEMS TO BE ADDED TO CONTRACT

AES#	ક	Detailed Description	Fee	Funding Source
-		Additional Project Management and Project Controls related to the DPS Repairs, EMD Coordination Support and the Emergency Power Program. Extension of contract to October 30, 2018.	s 1,265,712.00	System Funds

CONTRACT DBE %	BE %
Contract DBE%	10%
Current DBE%	5.22%

\$ 6,755,552.00	Amendments to date
\$ 1,265,712.00	Amount of this Amendment
5,489,840.00	Amount of Previous Amendments
3,000,000.00	Original Contract Amount \$
	CONTRACT AMOUNT

1,265,712.00

69

TOTAL

9,755,552.00	
S	
REVISED CONTRACT AMOUNT	

It is mutually agreed to perform and accept the above revisions in accordance with the currently ammended contract and the applicable specifications for the above price.

Recommended By:

Proposed By:

Carlos Giron
CH2H Hill Engineers, Inc.

4/6/2018 Date

M. Ron Spooner, P.E. Chief of Engineering

4/6/18 Data



CH2M

1515 Poydras Ave Suite 1550 New Orleans, IA 70112 www.ch2m.com

Sewerage & Water Board of New Orleans

Emergency Program Management and Staff Augmentation of
Operations, Maintenance and Recovery

March 9, 2018

Mr. Bruce H. Adams, P.E.
Interim General Superintendent
Sewerage and Water Board of New Orleans
8800 S. Claiborne Avenue
New Orleans, Louisiana 70118

Amendment 2 Proposal to Emergency Program Management and Staff Augmentation of Operations, Maintenance and Recovery in support of the Sewerage and Water Board of New Orleans

Dear Mr. Adams:

CH2M Engineers, Inc. (CH2M) is dedicated to continued service to the Sewerage and Water Board of New Orleans (SWBNO) to support drainage pumps, power production, and rain event monitoring per SWBNO direction. The following proposal details scope and level of effort to conclude our support and delivery of Emergency Services projects and tasks.

CH2M appreciates the opportunity to be of service to the SWBNO, please contact me at 225-572-9639 if you have any questions or require additional information.

Carlos Giron, P.G.

Jala Cim

Vice President

## Amendment 2 to the Professional Services Agreement Sewerage and Water Board of New Orleans

## And

CH2M HILL Engineers, Inc.

For

## Emergency Program Management and Staff Augmentation of Operations Maintenance and Recovery

This Amendment 2 is to the Professional Services Agreement dated August 23, 2017, between the Sewerage and Water Board of New Orleans (SWBNO) and CH2M HILL Engineers, Inc. (CH2M). The Scope of Work (SOW) is focused on those actions identified by SWBNO as remaining priority actions.

## Scope of Work

## Task 1 Electro-Motive Diesel (EMD) Generators

## 1.1 Environmental Support

## **Environmental Consulting**

The scope of this contract is to provide services requested by SWBNO for air permitting compliance, continued emissions support, and Spill Prevention Control and Countermeasure Plan (SPCC) support. This scope includes 8 hours per week for general consulting services for an environmental engineer. It also includes up to 2 hours per week for an environmental senior technical consultant.

Estimated costs are based on an end of services estimated date of June 15, 2018.

## 1.2 EMD Support

## EMD 1 Repair (Task 01.02.01)

Coordinate, oversee and document the commissioning, load testing, phase testing, synchronization check and integration into the SWBNO ring buss. Provide project management, construction support, quality control and administrative oversight for EMD 1 repair. Provide administrative support for the processing of invoices. Review testing documentation to help determine the best path forward to meet SWBNO objectives.

## Standard Operating Procedures (SOPs) and Preventative Maintenance Plan (Task 01.02.02)

Subtask 01.02.02a Standard Operating Procedures: The EMDs require standard operating procedures for safe and reliable long-term operation, and are to be provided as part of close-out and turnover of the EMDs to the SWBNO. These will be provided as part of the closeout and commencement of SWBNO operations of the EMDs.

Subtask 01.02.02b Preventative Maintenance Plan (including inspections and implementation of OPM database): The scope of this contract is needed to provide the SWBNO with the current status of the aspects of their power

assets, resolve agreed upon issues, and establish a database for managing ongoing preventative maintenance work orders.

Establish initial scope of work and provide project controls support for the scope. Provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work.

## Addition of Differential Pressure Alarms at EMDs (Task 01.02.03)

The scope of this contract is needed to monitor differential pressures and identify when maintenance needs to be performed.

Finalize initial scope of work and provide project controls support for the scope. Provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work.

## Addition of SCADA to EMDs (Task 01.02.04)

The scope of this contract is needed to allow operations control of the EMDs from within Central Control. Establish initial scope of work and provide project controls support for the scope. Provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work.

## Area Lighting System (Task 01.02.05)

The scope of this contract is needed to provide lighting within the EMD and surrounding area.

Supervise the engineering contractor, establish the initial scope of work and provide project controls support for the scope. Provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work.

## Basler 11g Protection Relay (Task 01.02.06)

Establish initial scope of work, provide project controls support for the scope, provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work. Supervise the engineering contractor and provide engineering QA services.

## EMD Access Platform Grating (Task 01.02.07)

Establish initial scope of work and provide project controls support for the scope.

## EMD Air Intake Shutoff (Task 01.02.08)

Establish initial scope of work, project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work. Supervise the engineering contractor and provide engineering QA services.

## EMD Automatic Oil Makeup System (Task 01.02.09)

The scope of this contract is needed for maintenance of the oil system for each EMD. Establish initial scope of work and provide project controls support for the scope. Provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine

the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work. Supervise the engineering contractor and provide engineering QA services.

## EMD Operations & Maintenance Services (setup and coordination)- Removed From Scope

Establish initial scope of work, provide project controls support for the scope, and provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach.

## EMD Slab Settlement Monitoring (Task 01.02.10)

The scope of this work is to provide the ongoing horizontal and vertical monitoring of five (5) EMD Slabs, five (5) Day Tank Slabs, five (5) fuel tank skids, and two (2) NGR slabs. Establish initial scope of work, provide project controls support for the scope, and provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach.

## E-Stops for the EMDs (Task 01.02.11)

The scope of this contract is needed to provide a single location for emergency shutdown of the 480V power to the EMDs which results in a full shutdown of each EMD unit. Establish initial scope of work and provide project controls support for the scope. Provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work. Supervise the engineering contractor and provide engineering QA services.

## Lightning Protection System (Task 01.02.12)

Establish initial scope of work, provide project controls support for the scope, and provide project management and administrative support to establish the contract and the processing of invoices. Perform independent cost estimate (ICE) and determine the optimum approach. Oversee construction and provide quality control supervision throughout the execution of the full scope of work. Supervise the engineering contractor and provide engineering QA services.

Estimated costs of EMD are based on an end of services estimated date of June 30, 2018.

## Task 2 Emergency Pump Restoration

## 2.1 Anti-siphon for DPS 1 and DPS 4-Bidding Services and Construction Administration

The DPS 1 Anti-Siphon Project design documents were Issued For Construction (IFC) to the SWBNO on December 8, 2017. The DPS 4 Anti-Siphon Project design documents were Issued For Construction (IFC) to the SWBNO on December 15, 2017. The project is moving forward through procurement and is expected to begin construction in a few months. The proposed work includes the following work elements:

Bidding Services, assumed ~3 months per DPS (Task 02.01.01):

- Coordination and Pre-Bid Meeting
- Response to Bidder Questions
- Preparation of Bid Addendums
- Bid Evaluation and Recommendation

Construction Administration, assumed ~3 months per DPS (Task 02.01.02):

• Engineering Services During Construction (RFI/Submittal Review, etc.)

- Construction Oversight
  - Daily progress report including photographs, coordination with contractor and SWBNO departments (Facilities, Operations and Engineering), reviewing project schedules, RFIs and FCOs prior to approval and providing recommendations, facilitating progress meetings, holding contractor accountable to specifications within IFC set by highlighting deviations to SWBNO.
- Closeout

## 2.2 DPS4 Pump Repair Project-Bidding Services and Construction Administration

The DPS 4 C/D/E Pump Repair Project design documents were Issued For Construction (IFC) to the SWBNO on December 8, 2017. The project is moving forward through procurement and is expected to begin construction in a few months. The proposed work includes the following work elements:

Bidding Services, assumed ~3 months (Task 02.01.03):

- Coordination and Pre-Bid Meeting
- Response to Bidder Questions
- Preparation of Bid Addendums
- Bid Evaluation and Recommendation

Construction Administration, assumed ~3 months (Task 02.01.04):

- Engineering Services During Construction (RFI/Submittal Review, etc.)
- Construction Oversight
  - Daily progress report including photographs, coordination with contractor and SWBNO departments
    (Facilities, Operations and Engineering), reviewing project schedules, RFIs and FCOs prior to approval and
    providing recommendations, facilitating progress meetings, holding contractor accountable to
    specifications within IFC set by highlighting deviations to SWBNO.
- Closeout

Estimated costs for Task 2 are based on an end of services estimated date of October 31, 2018.

## Task 3 Communications Support

From August 11, 2017 through November 30, 2017, the team prepared and disseminated status reports for power and pumping assets twice daily, including temporary generators, as well as the status of multiple critical pump station repairs. Currently these reports are modified, updated, and verified upon request as new assets become available or as new information is received. Anticipated services include dashboard visibility from Central Control during rain events as requested, supporting the development of public facing information on SWBNO drainage and power assets, and continued reporting of pump and power status.

## 3.1 City of New Orleans Communications Reporting & Operations Status

## Removed from Scope

The team will review press releases and other information and data requests with operational status information at the request of SWBNO and the City of New Orleans (City), and provided comment on accuracy and completeness of information, as well as respond to FOIA requests as required up to 7 requests. CH2M will continue to provide detailed Powerpoint slide decks up to once monthly to support meetings conducted by SWBNO. The online operations dashboard that was created during Immediate Recovery Support activities as an improvement to the original spreadsheet based version. Continuing services include distribution of operational

status reports via email and online dashboard, responding to supplemental information requests from the SWBNO and interim management team, and facilitating information distribution internally.

## 3.2 Rain Event Visibility

Rain Event Visibility (Task 03.01.01): An online pump status dashboard was created during Immediate Recovery Support activities to provide visibility of the pumps that are operating during a rain event. Continuing services include updating the pump status dashboard during rain events upon request from SWBNO, as well as compiling notes and responding to information requests. This task will include up to 40 events of 12 hours each.

Estimated costs for Task 3 are based on an end of services estimated date of October 31, 2018.

## Task 4 Project Services Support

## 4.1 Project Services (Task04.01.01)

CH2M program services including project controls, estimating, and document controls will continue to maintain the project framework established during the earlier phases of this project. This framework feeds the change management, invoicing, weekly schedule, progress and earned value updates, and cost tracking used in the monthly reporting and program portal.

A CH2M Program Controls Manager and other staff working on a part-time basis as necessary to support the identified delivery scope will maintain the framework to provide insight regarding cost, schedule, and procurement services. Elements of the Program Controls system are anticipated to include schedule controls, document controls and change management, and procurement and contractor invoicing controls. Project close-out activities are included as project reach their completion.

CH2M will continue to provide project management, project controls including scheduling, engineering design services, quality assurance, and coordination in the capacities as defined in the original agreement for the additional assigned Pump Station and Permanent Power Scope as outlined in this proposal.

CH2M has developed a master schedule that integrates ongoing emergency operation activities. The master schedule will include CH2M Level 3 design activity schedules updated weekly, and contractor Level 1 schedules updated monthly for the purpose of managing the delivery and cashflow projections.

Estimated costs for Task 4 are based on an end of services estimated date of August 31, 2018.

## Task 5 Program Management

## 5.1 Program Management and Support (Task 05.01.01)

Program management and support services are intended to provide a framework for project delivery, financial oversight and accountability, administration, performance reporting and strategic delivery and resource planning.

CH2M will continue to assist in preparation of draft procurement documents, technical analysis, and design support for specific project development and construction contract project management. This includes identification of necessary SWBNO staff action items in support of the CH2M program and project management activities.

CH2M will continue to use internal systems to provide program document control and contract management for in-progress documentation.

Estimated costs for Task 5 are based on an end of services estimated date of August 31, 2018.

## Assumptions

- CH2M will obtain written approval before accepting additional tasks under this Amendment.
- This scope of work is limited to design and consulting services, no direct supervision of SWBNO employees or Contractors will occur.
- No direct maintenance activities will be performed without the prior coordination with and under the direction of SWBNO.
- CH2M is not responsible for the operation of the facilities and will not be responsible for any violations or compliance issues that the facilities experience.
- CH2M may reasonably rely upon the accuracy of the information provided by SWBNO employees and Contractors.
- CH2M will not be responsible for the quality and completeness of information provided by SWBNO
  employees and Contractors, nor for acts by SWBNO employees and Contractors.
- CH2M will not monitor or provide oversight of facilities not in this scope, including those adjacent to work sites.
- Construction Administration support on pump stations assumes 20 hours/week of a Construction
   Manager, and 40 hours/week of Construction Oversight personnel per station (two stations total per Task
   2).

Table 2. Estimated Total Costs

As requested by SWBNO, CHZM has modified rate structure to align with other SWBNO Programs and is utilising raw labor multiplier of 2.7896 plus expenses.

rendment to Emergancy Program Management and Stoff Augmentation of Operations, Maintenance, and Recovery

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Note: Project non-construction costs presented in this table include necessary project life-cycle components for design, procurement, permitting (if required), construction administration, and/or closeout as presented in Amendment 2, which is projected to go from February 1, 2018 through June 15, 2018. All of the projects presented here are at various stages in their project life-cycle. Any costs associated with components completed project construction costs are included for completeness based on the Independent Cost Estimates prepared by CHZM during Amendment 1, but are not proposed as part of Amendment 2.

TBD — To be determined NA ~ No construction costs associated with this line item

CH2M - Emergency Services - Amendment 2 Proposal 4/6/2018

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Faul BODER   Pour BODER   Contribution Manigher   Co-CM   STAT	Construction Administration	100			2942	£1724 5ft.3		
Marie   Mari		PAUL BORRY			2942	4274 504		\$371,104
Register SONYA   Register Contact No.   1972/20   1		MCGOEV WILLIAM	L-Offstruction Manager	CHZM	510	\$10° ( ) CS3		
FARMER Services		REISER SONYA	Mapped Br.	CHOM	840	100 C C C C C C C C C C C C C C C C C C		
HENRINGON, GCOTT		JAMES STREETHER	CARGO ENGINEE	CHOM	101	27.20		
FARMER BILL   Chipmen   CHOM   104   ST8.200   S		HENRIKSON SCOTT	Engineer	CHZM	230	210,020		
TBD		FARMER BRI		CHZM	106	200 000		
State		T8D	i de la constanti	CHZM	781	070.000		
STOCHI, NOVICA   Inspection   CHIZM   166   SST, 501   5   5   5		ISAMAN CAMERON	Ting Chames!	CH2M	640	200000		
Engineering Services   STGD-it, MDodiCA   Engineer   CHIZM   280   STG,039   S   STG,032   S   STG		STOCH! MONICA		CH2M	168	100.000		
Engineering Services   STGD-IL MONICA   Engineer   CHIZM   A466   \$56,322   \$5.0			TO SO	CHOM	380	10 FTG		
Engineering Services   STOCHIL, MOVERS, MATLIN   Engineer   CHZM   240   350,322   5.0	ľ					2000000		
STICPIL MONICHE   Eligineer   CHZM   Eligineer   STICPIL MONICHE   STICPIL MONICHE   STICPIL	Engineering Services				480	256 359		
TYMPAN, KATLIN		STOCH MOMPL			480	488 322		\$56,322
Engineering Services		TYMRAK, KAITUM	Subtract	CHISK	240	270'004		
Engineering Services BRUCE PAUL Program Controls Manager CH-2M 276 \$503,445 \$50 \$			Transet.	CHOM	240	524,702		
BRUICE PAUL   Program Controls Manager   CH2M   1215   5203,445   50						020,404		
Program Controls Manager         Chrizk         1215         \$203,445         \$ 90           Finginal Echaduler         1,31         100         514,256         \$ 5         1           Emplose         1,31         100         519,850         \$ 5         1           Fingines         1,31         384         \$55,119         \$ 5           Fingines         1,51         384         \$55,119         \$ 5           TNE         Project Admin         1LSY         365         \$40,009         \$ 5	Engineering Services				1218	\$203.445		
Project Admin         Children         Children         STA 256         15           Froject Admin         Children         Children         STA 256         15           Froject Admin         Children         Children         SS 119         3           INE         Project Admin         Children         35         5           INE         Project Admin         Children         35         5		BRUCE PAUL	Debite of Parties of Street		1255	\$203 445		\$203,445
Engineer   Chi2M 100 519,880 9   Project Admin   Chi2M 24 514,840 8   St. 241 9   St. 24		BOLIDREAUX, CODY	Program Rehadular	CHZM	270	\$74.795	, .	
Project Admin   CHIZM   384   \$55,119   6   1   1   1   1   1   1   1   1   1		TYMPAK, KATILIN	TOO DOOR	10	100	519.680		
E Project Admin (LS 365 \$14,341 \$		MILER BARA	Project Admin	CHEM	384	\$55.119		
365 \$40,009 8		TADROUS, CHRISTINE	Project Admin	CHCM	20	\$14,341		
				67	365	\$40,009		

Program Management					1491	\$235,819	20	\$235,819
	Program Administration				842.25	\$79,806		
		DEGRUSHE, DANIELLE	Project Administrator	CHZM	75	\$12,487		
		JASKOLKA, MALGORZATA	Project Administrator	12M	136	13,735		
		SKCWRONSKA, MARTA	Project Administrator	CH2M	910	\$31,890		
		IBRAHAMI, FRESHTA	Project Administrator	CHOM	273	\$31.763		
	Program Management				649	\$156.013	in	
		ELLEDGE LON	Program Administrator	CHZIM	ZI.	\$14.291		
		GAZE, AMANDA,	Program Manager, Senior	CHZM	220	252 540		
		HAYDEN, ROBERT	Program Manager, Principal	CHON	135	B39 732	- 40	
		RCKAYAK YAHYA	Deptuy Program Manager and Definery Leader	の上記	230	348 451		
Expenses					0	80	6411 676	2414 672
	Program Expense						St. 500 at 1	2
	Travel Expense						20000000	
Grand Total					7832	\$1.134.136	24.000.000	64 462 744



April 11, 2018

Finance and Administration Committee Sewerage and Water Board of New Orleans New Orleans, Louisiana

## Re: Financial Results through December 2017

Attached are the Statement of Net Position and the Statement of Revenues, Expenses, and Changes in Net Position with budget and prior year comparisons for the water, sewer, drainage and total systems through December 2017. The Variance Indicators for Financial Results through December 2017 and the Statement of Cash Flows are also attached.

## **Operating Revenues:**

Water System Fund (pages 7 and 8, line 5) for December of \$7,725,232 is \$1,432,458 or 15.6% less than budgeted and \$772,542 or 11.1% more than December 2016. December YTD operating revenues of \$90,962,407 is \$8,155,693 or 8.2% less than budgeted and \$6,796,956 or 8.1% more than December YTD 2016.

Sewer System Fund (pages 13 and 14, line 5) for December of \$9,410,568 is \$1,188,302 or 11.2% less than budgeted and \$605,247 or 6.9% more than December 2016. December YTD operating revenues of \$109,867,546 is \$4,849,154 or 4.2% less than budgeted and \$5,874,995 or 5.6% more than December YTD 2016.

**Drainage System Fund** (pages 19 and 20, line 5) for December of \$4,098 is \$4,098 or 0.0% budgeted and \$23,196 or 85.0% less than for December 2016. December YTD operating revenues of \$1,215,909 is \$1,215,909 or 0.0% budgeted and \$579,696 or 91.1% more than December YTD 2016.

**Total System Funds** (pages 1 and 2, line 5) for December of \$17,139,898 are \$2,616,662 or 13.2% less than budgeted and \$1,354,593 or 8.6% more than December 2016. December YTD operating revenues of \$202,045,862 are \$11,788,938 or 5.5% less than budgeted and \$13,251,647 or 7.0% more than December YTD 2016.

## **Operating Expenses:**

Water System Fund (pages 7 and 8, line 18) for December of \$12,713,346 is \$1,664,740 or 11.6% less than budgeted and \$15,327,148 or 586.4% less than December 2016. December YTD operating expenses of \$90,952,211 is \$4,615,489 or 4.8% less than budgeted and \$6,116,160 or 7.2% more than December YTD 2016.

Sewer System Fund (pages 13 and 14, line 18) for December of \$11,041,164 is \$5,509,501 or 33.3% less than budgeted and \$1,289,951 or 13.2% more than December 2016. December YTD operating expenses of \$85,639,420 is \$24,946,370 or 22.6% less than budgeted and \$9,090,744 or 11.9% more than December YTD 2016.

**Drainage System Fund** (pages 19 and 20, line 18) for December of \$10,363,417 is \$450,258 or 4.5% more than budgeted and \$4,949,353 or 91.4% more than December 2016. December YTD operating expenses of \$74,146,908 is \$7,152,159 or 10.7% more than budgeted and \$23,556,506 or 46.6% more than December YTD 2016.

Total System Funds (pages 1 and 2, line 18) for December of \$34,117,927 are \$6,723,983 or 16.5% less than budgeted and \$21,566,452 or 171.8% more than December 2016. December YTD operating



expenses of \$250,738,539 is \$22,409,700 or 8.2% less than budgeted and \$38,763,410 or 18.3% more than December YTD 2016.

## **Net Non-Operating Revenues:**

Water System Fund (pages 7 and 8, line 28) for December of \$1,300,872 is \$1,230,185 or 1740.3% more than budgeted and \$1,479,528 or 828.1% more than December 2016. December YTD net non-operating revenues of \$2,185,008 are \$546,149 or 20.0% less than budgeted and \$1,314,821 or 151.1% more than December YTD 2016.

Sewer System Fund (pages 13 and 14, line 28) for December of \$1,429,599 is \$1,397,559 or 4361.9% more than budgeted and \$1,245,319 or 675.8% more than December 2016. December YTD net non-operating revenues of \$2,046,573 are \$808,647 or 65.3% more than budgeted and \$1,155,759 or 129.7% more than December YTD 2016.

**Drainage System Fund** (pages 19 and 20, line 28) for December of \$1,020,851 is \$407,337 or 28.5% less than budgeted and \$678,084 or 197.8% more December 2016. December YTD net non-operating revenues of \$56,801,382 are \$1,620,345 or 2.9% more than budgeted and \$2,369,362 or 4.4% more than December YTD 2016.

**Total System Funds** (pages 1 and 2, line 28) for December of \$3,751,321 is \$2,220,406 or 145.0% more than budgeted and \$3,402,930 or 976.8% more than December 2016. December YTD net non-operating revenues of \$61,032,962 are \$1,882,842 or 3.2% more than budgeted and \$4,839,941 or 8.6% more than December YTD 2016.

## **Income Before Contributions in Aid of Construction:**

Water System Fund (pages 7 and 8, line 29) for December of -\$3,687,242 is \$1,462,467 or 28.4% more than budgeted and \$13,075,078 or 139.3% less than December 2016. December YTD income before capital contributions of \$2,195,204 is \$4,086,353 or 65.1% less than budgeted and \$1,995,617 or 999.9% more than December YTD 2016.

**Sewer System Fund** (pages 13 and 14, line 29) for December of -\$200,997 is \$5,718,757 or 96.6% more than budgeted and \$560,615 or 73.6% more than December 2016. December YTD income before capital contributions of \$26,274,698 is \$20,905,862 or 389.4% more than budgeted and \$2,059,991 or 7.3% less than December YTD 2016.

**Drainage System Fund** (pages 19 and 20, line 29) for December of -\$9,338,469 is \$853,497 or 10.1% less than budgeted and \$4,294,466 or 85.1% less than December 2016. December YTD income before capital contributions of -\$16,129,616 is \$4,315,904 or 36.5% less than budgeted and \$20,607,447 or 460.2% less than December YTD 2016.

Total System Funds (pages 1 and 2, line 29) for December of -\$13,226,708 is \$6,327,728 or 32.4% more than budgeted and \$16,808,929 or 469.2% less than December 2016. December YTD income before capital contributions of \$12,340,285 is \$12,503,604 or 7655.9% more than budgeted and \$20,671,822 or 62.6% less than December YTD 2016.



The balances of funds from the Series 2014 bond proceeds available for capital construction as of December 31, 2017 are:

	Water	Sewer	Total
Original Balance	\$5,239.47	-	\$5,239.47
Less Disbursements	-	ex	\$0.00
Plus Reimbursements	-	-	\$0.00
Plus Income	813,433.09		\$813,433.09
Ending Balance	\$818,672.56		\$818,672.56

The balances of funds from the Series 2015 bond proceeds available for capital construction as of December 31, 2017 are:

	Water	Sewer	Total
Original Balance	\$51,879,061.97	\$14,346.36	\$51,893,408.33
Less Disbursements	(4,500,000.00)	0.00	(4,500,000.00)
Plus Reimbursements	-	-	0.00
Plus Income	1,309,133.46	434,114.55	1,743,248.01
Ending Balance	\$48,688,195.43	\$448,460.91	\$49,136,656.34

Total	\$49,506,867.99	\$448,460.91	\$49,955,328.90

The days-of-cash at December 31, 2017 were 153 days for the water system, 246 days for the sewer system, 119 days for the drainage system and 185 days for total systems. The total system results is ahead of the minimum policy target of 180 days for the water, sewerage and drainage systems combined. Individually, the sewerage system met it's policy target of 180 days, whereas the water and drainage system did not meet it's target.

The projected coverage for the year ending December 31, 2017, based upon financial results through December 31, 2017, remains at the budgeted levels of 1.18 times for the water system and 1.97 times for the sewer system. The water results are below the policy target of 1.50 times and below the bond covenant minimum of 1.25. The sewerage results are ahead of the policy targets of 1.50 times and the bond covenant minimum of 1.25 times coverage for sewerage systems.

**Certification.** In connection with the accompanying monthly financial report of the Sewerage and Water Board of New Orleans for the period ended December 31, 2017, I hereby certify that, to my knowledge, the information contained in the report fairly presents, in all material respects, the financial condition and results of the Board.

Rosita Thomas

Finance Administrator

## Printed: 4/6/2018 5 22 PM

# SEWERAGE AND WATER BOARD OF NEW ORLEANS ALL SYSTEM FUNDS STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH PRIOR YEAR COMPARISONS December 2017

		*	В	C	D	Ŀ	LL.	Ď	Ħ	
		MTD	MTD	MTD		VTD	QTY	YTD		
		Actual	Prior Year	Variance	%	Actual	Prior Year	Variance	%	
,	Operating revenues:	7 597 507	6 897 817	684 775	%66	88.986.228	81,338,932	7,647,296	9,4%	1
٠, ١	Sales of water and definitions of delinearer feet	0 373 47R	8 710 197	663.236	7 6%	109,062,423	103,168,194	5,894,229	5 7%	2
4 6	Sewerage service that ges and utility the second blumbing intenseration and literate face	60 370	50,339	10,031	19 9%	588,430	638,500	(50,070)	-7 8%	۳
ם ס	Other revenues	123,508	136,957	(3,449)	-2.7%	3,408,781	3,648,589	(239,808)	-6.6%	4
רא ז	Total operating revenues	17.139,898	5,785,305	354 593	8 6%	202,045,862	188,794,215	13,251,647	7 0%	<b>1</b> 0
4	Operating Expenses:	210.278	129.024	81,254	63 0%	2,005,993	1,350,806	655,187	48 5%	9
7	Special Counsel	284,941	161,734	123,207	76.2%	1,958,357	1,591,362	366,995	23 1%	1
- 90	Security	2,027,037	1,915,466	111,571	5 8%	12,793,071	9,915,221	2,877,850	29 0%	00
•	Onerations	23.006,682	10,395,512	12,611,170	121.3%	127,620,960	104,110,465	23,510,495	22 6%	6
10	Engineering	1,035,504	609,352	426,152	%6 69	7,910.094	5,894,579	2,015,515	34 2%	10
=	Logistics	1,220,004	845,554	374,450	44 3%	12,075,954	11,056,904	1,019,050	9 2%	Ξ
12	Communications	80,878	154,203	(73,325)	47.6%	644,067	920,989	(276,922)	-30.1%	12
13	Administration	(178,039)	1,943,123	(2,121,162)	-109 2%	12 203,643	14,623,768	(2,420,125)	-16 5%	13
14		2,424,859	2,340,061	84,798	3.6%	22,768,464	19,730,058	3,038.406	15 4%	14
		(8)	94,749	(94,749)	-100 0%	126,828	175,881	(49,053)	-27 9%	15
16		(1,186,514)	(1.310,712)	124,198	-9 5%	(12.998.810)	(12.791.430)	(207,380)	1 6%	91
17		28,925,631	17,278,066	11,647,565	67.4%	187,108,622	156,578,603	30,530,019	19.5%	17
90	Non-	5,192,296	(4,726,591)	9,918,887	~209 9%	63,629,917	55,396,526	8,233.391	14 9%	90
19		34,117,927	12,551,475	21,566,452	171 8%	250,738,539	211,975,129	38,763,410	18 3%	19
	į							\$ 0 P	000	6
20	Operating income (loss)	(16,978,1129)	3,233,830	(20,211,859)	-625.0%	(48,692,677)	(23.180,914)	(25,511,763)	110.1%	07
	Non-operating revenues (expense):									
21		416	39	377	967 4%	2,735	7,526	(4,791)	-63,7%	21
22		403,897	72,926	330,971	453 8%	15,783,415	15,373,454	409,961	2 7%	22
23		229,385	73,750	155,635	211.0%	16,336,709	15,538,326	798,383	5.1%	23
24		343.706	110,537	233,169	210 9%	24,487,795	23,291,247	1,196,548	5 1%	74
25		2,926,666	3,072,061	(145,395)	4.7%	4,277,117	4,670,766	(393,649)	-8 4%	25
26	_	297 259	296,164	1,095	0.4%	593,424	564,050	29,374	5.2%	26
27		(449,965)	(3,277,086)	2,827,121	-86 3%	(449,965)	(3,277,086)	2,827,121	-86 3%	27
78		(43)		(43)	0.0%	1,732	24.738	(23,006)	-93.0%	28
29		3,751,321	348.391	3,402,930	976 8%	61,032,962	56,193,021	4.839.941	8.6%	29
30	Income hefore conite   contributions	(13.226.708)	3.582.221	(16,808,929)	469.2%	12,340,285	33,012,107	(20,671,822)	-62,6%	30
<b>4</b>		9.964.746	85,889,051	(75.924.305)	-88 4%	46,726,412	116,530,542	(69,804,130)	-59.9%	31
32		(3,261.962)	89,471,272	(92,733,234)	-103.6%	59,066,697	149,542,649	(90,475,952)	-60,5%	32
2						2.228,421,948	7,082,688,213	145,733,633	7.00	33
34					1 11	2,287,488,645	5,737,730,964	55,257,681	2.5%	34

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS

## ALL SYSTEM FUNDS STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH BUDGET COMPARISONS December 2017

		×	8	O	Q	ш	S.	ŷ	H	
		MTD	MTD	MTD Variance	°,	YTD Actual	YTD Budget	YTD Variance	%	
-	Operating revenues:	7 587 597	8 727 902	(1.145.310)	-13.1%	88,986,228	94,466,300	(5,480,072)	-5 8%	_
1 (	Sales of water and definition fees	9.373.428	10,513,556	(1,140,128)	%8 01-	109,062,423	113,793,300	(4,730,877)	4 2%	ri
4 10	Plumbing inspection and license fees	60,370	57,819	2,551	4.4%	588,430	625,800	(37,370)	%0 9-	3
4	Other revenues	123,508	457.383	(333,776)	-73.0%	3,408,781	4,949,400	(1.540,619)	-311%	7
r vo	Total operating revenues	17.139.898	19,756,560	(2.616.662)	-13,2%	202 045,862	213.834,800	(11,788,938)	-5.5%	45
	Constitution of the consti									
٧	Operating Expenses:	210 278	250.006	(39,728)	-15.9%	2,005,993	1,636,052	369,941	22,6%	9
0 1	Special Counsel	284,941	417,992	(133,051)	-31 8%	1,958,357	2,735,361	(777,004)	-28,4%	7
- 00	Security	2,027,037	1,755,657	271,380	15 5%	12,793,071	11,489,108	1,303,963	11 3%	90
0	Operations	23,006,682	17,449,306	5,557,377	31 8%	127,620,960	114,189,167	13,431,793	11 8%	6
10	Engineering	1,035,504	2,008,489	(972,985)	48 4%	7,910,094	13,143,658	(5,233,564)	-39 8%	10
: =	Logistics	1,220,004	2,594,760	(1,374,756)	-53 0%	12,075,954	16,980,244	(4,904,290)	-28.9%	11
12	Communications	80,878	177,733	(96,855)	-54,5%	644,067	1,163,097	(519,030)	44 6%	12
13	Administration	(178,039)	2,433,197	(2,611,237)	-107 3%	12,203,643	15,922,971	(3,719,328)	-23 4%	13
4	Chief Financial Officer	2,424,859	4,383,138	(1,958,279)	-44,7%	22,768,464	28,683,482	(5,915,018)	-20 6%	14
15	Continuous Improvement	Å.	71,978	(71,978)	-100 0%	126,828	471.030	(344,202)	-73 1%	15
16	_	(1,186,514)	(2,651,832)	1,465,318	-55.3%	(12.998.810)	(17,353,724)	4.354.914	-25.196	16
17		28,925,631	28,890,425	35,206	0.1%	187,108,622	189,060,446	(1,951,824)	-1 0%	17
90	Non-	5.192.296	11.951.485	(06   652 9)	-56.6%	63,629,917	84.087.793	(20,457,876)	-24 3%	18
19		34,117,927	40,841,910	(6,723,983)	-16 5%	250,738,539	273,148,239	(22,409,700)	-8.2%	19
	ł					VERT 2 FOR 111 .	1000 01000	075 003 01	17.00	6
20	Operating income (loss)	(16.978,029)	(21,085,350)	4.107.321	-19.5%	(1/9/5/6/34)	(96,515,95)	10,020,702	-1/970	07
	Non-operating revenues (expense):									
21		416		416	%00	2,735	¥);	2,735	%00	21
22	Three-mill tax	403,897	383,826	20,070	5 20%	15,783,415	14,829,936	953,479	6.4%	22
23		229,385	405,341	(175,956)	43.4%	16,336,709	15,661,211	675,498	4 3%	23
24	Nine-mill tax	343,706	607,581	(263,876)	43 4%	24,487,795	23,475,190	1,012,605	4 3%	24
25	Interest income	2,926,666	34,946	2,891,720	8274 996	4,277,117	1,350,200	2,926,917	216.8%	25
26		297,259	47,664	249,595	523.7%	593,424	1,841,600	(1,248,176)	-67 8%	26
27	Interest expense	(449,965)	(62,069)	(387,896)	624.9%	(449,965)	(2,398,151)	1,948,186	-81.2%	27
28		(43)	113.625	(113,667)	-100,0%	1,732	4,390,134	(4,388,402)	-100.0%	28
77		3,751,321	1,530,915	2.220.406	145.0%	61,037,962	59,150,120	1,882,842	3.2%	29
30	I Income before canital contributions	(13,226,708)	(19,554,435)	6,327,728	-32,4%	12,340,285	(163,319)	12,503,604	-7655,9%	30
2		9,964,746	7	9,964,746	9600	46,726,412	¥	46.726,412	0.0%	31
32		(3,261,962)	(19,554,435)	16,292,473	-83.3%	59,066,697	(163,319)	59,230,016	-36266,5%	32
ivš					.1	3,238,421,948	2,082,688,315	145,733,633	7.0%	33
3	34 Net position, end of year					7,187,488,645	ZU82,524,996	204,985,049	3.070	Ť

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS ALL SYSTEM FUNDS STATEMENTS OF NET POSITION WITH PRIOR YEAR AND BEGINNING OF YEAR COMPARISONS December 2017

33

18% 3,216,764,996

56,483,710

3,273,249,706

3,198,594,244 73,679,360

33 Total Net Position, Liabilities and Deferred Inflows of Resources

SEWERGE AND WATER BOARD OF NEW ORLEANS
ALL SYSTEM FUNDS
STATEMENTS OF NET POSITION
WITH PRIOR YEAR COMPARISONS

		Десеп	December 2017						
		*	B	O	q	ഥ	[2	U	
		Prior			Current			Beginning of	
	NET ASSETS AND LIABILITIES	Year	Variance	%	Year	Variance	zę.	Year	
	Net position						9	007 001 318 0	
_	Net investments in capital assets	2,234,499,682	159,439,258	7 1%	2,393,938,940	(21,253,665)	%60-	2,415,192,003	- 1
7	Restricted for Debt Service	44,981,883	23,887,258	23 1%	68,869,141	21,651,160	45.9%	186717774	4 9
m	Unrestricted	(47.250.601)	1128 068 835)	2716.	(727 310 414)	58 669 2(8)	-25 5%	1745 ORK DAD	•
4	Total net position	2 232 230,964	55.257,681	2 5%	2 287 488 645	59.066.697	1 7%	7,228,421,948	φ:
	Long-term labilities								
10	Claims payable	2,490,568	(939.873)	-37 77%	1,550,695	,	%00	1,550,695	M)
9	Net pension obligation	76,967,565	686'029'6	12.6%	86,638,554	5,888,896	7 3%	80,749,658	9
1-	Other postretirement benefits liability	67,579,016	10,070,279	14.9%	77,649,295	4,068,954	\$ 5%	73,580,341	r-
αф	Bonds payable (net of current materities)	482,308,158	(19,442,661)	4 0%	462,865,497	(19,442,661)	4 %	482,308,158	60
6	Special Community Disaster Loan Payable	)9		0.00%	S	3	%0 0	10	6
10	Southeast Louisiana Project liability	161,849,675	2,145,833	13%	163,995,508	2	0.0%	163,995,508	10
11	Debt Service Assistance Fund Loan payable	52,603 109	(4.842,337)	40.25	47,760,772	(4.842.337)	-9 7%	52 603 109	=
12	Total long-term liabilities	843,708,091	(3.337,770)	-0.4%	840,460,321	(14 327,148 00)	-1 7%	854 787 469	12
	Current liabilities (payable from current assets)		8	9	200	0 126 169	792.01	40 010 085	<u>r</u>
13	Accounts payable and other liabilities	37,080,241	706,100,61	43 378	46,124,233	001,001,0	2000	500,000	: :
14	Due to City of New Orleans	394,882	151,979	38.5%	546,861	6/6/151	38 5%	394,882	÷ ;
15	Disaster Reimburtement Revolving Loan	11,256,833	1,986,711	17.6%	13,243,544	2,145,312	193%	11,098,232	9 ;
16	Retainers and estimates payable	9,531,401	1,302,419	13 7%	10,833,820	1,240,409	12 9%	9,593,411	9
17	Due to other fund	147,814	49,529	33 5%	197,343	47,131	31 4%	150,212	17
18	Acerued salaries, vacation and sick pay	10,663,355	(1,086,348)	-10 2%	9,577,007	(1,086,349)	-10 2%	10,663,356	90
19	Claims payable	10,682,015	4,972,064	46 5%	15,654,079	'n	0.0%	15,654,076	19
20	Debt Service Assistance Fund Loan payable	4,627,616	214,721	4 6%	4,842,337	214,721	* 6%	4,627,616	70
7	Advances from federal government	6,486,125	(561,369)	00-	5,924,756	(445,153)	-7 0%	6,369,909	21
22	Other Liabilities	351.845	262 069	74 562	613.914	507.526	477 1%	106 388	22
23	H	87,228,827	22,359,077	25.6%	109.587.904	10,910,737	11.1%	98.677.167	23
	Current (labilities (payable from restricted assets)								
24		2,236,098	0	%00	2,236,098	0	0 0%	2,236,098	24
72		17,627,000	(866,000)	7 6%	16,761,000	(866,000)	4%	17,627,000	25
26	Retalgers and entimates payable	774,893	1,304,146	168.3%	2,079,039	1,233,631	145 9%	845,408	56
27		11 773 473	466, 703	4 0%	12.240.266	466, 793	4.0%	11,773,473	27
28	[	37.411.464	904 939	2.8%	33,316,403	814 424	2 6%	32,481,979	79
29	Total current liabilities	119 640 291	23,264,016	19.4%	142 904,307	11 745 161	%06	131, 159, 146	29
30	Total liabibities	963 438 382	18.421.679	*5	983,364,628	(2.581.987)	-0 36°C	985 946.615	98
1	Deferred inflows or resources:	00 808 PC0 C	(598 465)	201 81.	2 196 433 00		0 0%	2 396 433	
33	Ĕ	2 924 898	(528,465)	-18 1%	2.396.433		0.0%	2.396.433	32

## SEWERAGE AND WATER BOARD OF NEW ORLEANS ALL SYSTEM FUNDS STATEMENTS OF CASH FLOWS

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11 12 13 14 14 15	16 17 18	19 20 21	22 22	24	26 27 28	29
295.1% 0.0% 0.0% 0.0% 0.0%	-180.3% 6.8% 612.1%	0.0%	48.5%	-12.4%	130.2% -54.3% -48.3%	-43.5%
(129,826,675) (22,254,642) 75,421	4,810,584 1,423,290 (147,039,256)	538.683	538,683	(48.101.938)	19,886,766 (68,523,101) (129,153,307)	(177.789,642)
(44,000,400)	(2,667,671) 21,010,351 (24,023,005)	1110269	1,110,269	386,695.888	15,277,654 126,080,092 267,142,690	408.500.436
(173,827,075) (22,254,642) 	2,142,913 22,433,641 (171,062,261)	C50 8P9 I	1,648,952	338.593.950	35,164,420 57,556,991 137,989.383	230.710.794

Cash at the beginning of the year

24 25

23

Net increase in cash

Cash at the end of the period

Reconciliation of cash and restricted cash

Current assets - cash

Current assets - designated Restricted assets -cash

26 27 28

Total cash

29

Payments for purchase of investments Proceeds from maturities of investments Investment income Net cash provided by investing activities

19 20 21 22

Cash flows from investing activities

## SEWERAGE AND WATER BOARD OF NEW ORLEANS ALL SYSTEM FUNDS STATEMENTS OF CASH FLOWS December 2017

	*	æ	O	Q	
	YTD Current Year	YTD Prior Year	YTD	%	
Reconciliation of operating loss to net cash used in operating activities is as follows: Operating loss Adjustments to reconcile net operating loss to net cash	(48,692,663)	(11,975,143)	(36,717,520)	306 6%	-
used in operating activities: Depreciation Depreciation	51,924,404	31,004,247	20,920,157	67.5%	3 2
Provision for (revision) doubtful accounts Amortization	2,214,839	1,291,991	922,848	71.4%	4 W
Change in operating assets and liabilities: (Increase) decrease in customer and other receivables Increase in inventory	(14,831,717) (223,917)	(3,884,053)	(10,947,664) (223,917)	281.9%	9
Increase (decrease) in deferred outflows of resources related to net pension liability	0	•0.	0	%00	90
Increase (decrease) in prepaid expenses and other receivables Decrease in net pension asset Increase (decrease) in accounts payable	1,394,115	(1,585,454)	2,979,569	-187.9% 0.0% -115.8%	9 10 11
Increase (decrease) in accrued salaries, due to pension and accrued vacation and sick pay Increase in net other postretirement benefits liability Increase (decrease) in net pension obligation	(1,036,820) 4,068,955 5,888,895	(188,056) 3,164,741 3,171,697	(848,764) 904,214 2,717,198	451 3% 28.6% 85 7%	13
Decrease in other liabilities Increase (decrease) in deferred inflows of resources related to net pension liability	(3,252,518)	(912,533)	(2,559,965)	0.0%	16
Net cash used in operating activities	5,303,487	(6.752.923)	12.056.410	-178.5%	17

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS

# WATER SYSTEM FUND STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH PRIOR YEAR COMPARISONS December 2017

	MTD	MTD	MTD	à	YTD	YTD	YTD	8	
	Actual	Prior Year	Variance	%	Actuas	Prior rear	Variance	9/	
Operating revenues: Sales of water and delinguent fees	7,582,592	6,897,817	684,775	9,66 6	88,986,228	81,338,932	7,647,296	9 4%	1
Sewerage scryice charges and delinguent fees	jř	90	ě	%00	*	11		%00	7
Plumbing inspection and license fees	28,950	29	28,921	99727 6%	297,215	319,990	(22,775)	961 2-	3
Other revenues	113,690	54,844	58,846	107.3%	1,678,964	2.506,529	(827,565)	-33 0%	4
Total operating revenues	7,725,232	6.952,690	772.542	111%	90,962,407	84,165,451	6,796,956	%18	3
Onersting Expenses:									
Executive Director	72,902	46,556	26,346	56.6%	703,402	484,079	219,323	45 3%	9
Special Counsel	760,16	39,730	51,367	129 3%	643,123	477,977	165,146	34 6%	7
Special	760,194	728,020	32,174	4 40,0	4,828,792	3,715,688	1,113,104	30.0%	90
Oberations	9,749,893	4,848,824	4,901,069	%1 101	53,076,883	51,393,945	1,682,938	3 3%	6
Springering	309,655	177,723	131,932	74.296	2,738,274	1,995,668	742,606	37 29%	10
I paietice	429,422	271,231	158,191	58 3%	3,964,775	3,664,151	300,624	8 2%	Ξ
Communications	26,959	51,401	(24,442)	47 6%	214,689	306,996	(92,307)	-30 1%	12
Administration	(588,620)	868,533	(1,457,153)	-167 8%	5,105,810	6,732,446	(1,626,636)	-24 2%	13
Chief Financial Officer	1,033,796	976,870	56,926	5.8°%	9,941,508	8,537,349	1,404,159	16 4%	14
Continuous Improvement	36	31,583	(31,583)	-100 06%	42,276	58,627	(16,351)	-27 9%	15
Overhead and Budget Adjustments	(433,200)	(469,939)	36,739	-7 8%	(4,740,920)	(4,624,480)	(116,440)	2 5%	16
Non-Cash Operating Expenses	1.261.248	(10, 184, 334)	11,445,582	-112.4%	14,433,599	12,093,605	2.339.994	19 3%	17
Total operating expenses	12,713,346	(2,613,802)	15,327,148	-586.4%	90,952,211	84,836,051	6,116,160	7 2%	90
Operating income (loss)	(4,988,114)	9,566,492	(14.554.606)	-152 1%	10,196	(670,600)	962.089	-101.5%	19
Non-operating revenues (expense):								è	
Two-mill tax	00	(0	1.9	0 0%0	œ.		98	0.0%	7.0
Three-mill tax	36	(*)	Æ	%0 0	E	ŧń	£	%00	21
Six-mill tax	Æ	8	JK.	9600		4	56	%000	22
Nine-mill tax	(40)	ą	98	0.0%	ä	3	00	%00	23
Interest income	1,172,847	1,200,007	(27,160)	-2.3%	1,923,465	2,104,903	(181,438)	%9'8-	24
Other Income	132,280	131,793	487	0.4%	264,074	251,002	13,072	5 2%	25
Interest expense	(4,362)	(1,510,456)	1,506,094	%1 66-	(4,362)	(1,510,456)	1,506,094	%2 66-	26
Operating and maintenance grants	107	*	107	%0.0	1.832	24,738	(22,906)	-92.6%	27
Total non-operating revenues	1,300,872	(178,656)	1,479,528	-828.1%	2,185,008	870,187	1,314,821	151 1%	23
Income before canital contributions	(3.687.242)	9,387,836	(13,075,078)	-139 3%	2,195,204	199,587	1,995,617	%6 666	29
Capital contributions	6.297.622	3,831,189	2 466 433	64 4%	29,469,678	18,154,939	11.314.739	62,3%	30
Change in net position	2,610,380	13,219,025	(10,608,645)	-80 3%	31,664,882	18,354,526	13,310,356	72 5%	31
Net position, beginning of year				1	337,110,237	318,792,375	31,628,218	5 7%	32

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS

# WATER SYSTEM FUND STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH BUDGET COMPARISONS December 2017

Artual         Budget         Variance         %           2 Sake of water and definquent fees         7.582,592         8.727,902         (1,145,310)         1-13 1%           2 Sake of water and definquent fees         7.582,592         8.727,902         (1,145,310)         1-13 1%           3 Plumbing inspection and literate fees         12.8.50         27.660         1.200         4.6%           4 Other revenues         13.569         27.660         1.143,310         1-13 1%           5 Pewenge service charges and delinquent fees         11.36,90         27.263         27.263         1.143,310         1-15 6%           6 Contractions for the charges         7.725,332         9.157,600         (1,432,458)         1.15.66           9 Operating Expenses:         7.260,94         68,3.63         (1,432,458)         1.15.66           10 Contracting the connections         7.60,194         68,3.63         (1,432,438)         1.16.65           11 Contracting the connections         1.140,91         1.173,91         1.15.35         1.16.60           12 Contracting tree charges         1.20,93         1.100,93         1.33,93         1.16.60         1.183           13 Contracting income (toss)         1.20,134         1.20,038         1.20,039         1.100         1.100<			A	æ	O	D	ы	[=	O	H	
Actual Budget Vuriance  targes and delinquent fees  1,38,950  1,3690  1,375,322  1,375,902  1,375,902  1,375,903  1,393  1,49,422  1,31,509  1,097  1,097  1,097  1,097  1,097  1,097  1,097  1,093,796  1,098  1,099  1,097  1,093  1,098  1,099  1,097  1,093  1,098  1,099  1,097  1,033,065  1,048,833  1,148,893  1,142,063  1,099,555  1,049,089  1,099  1			MTD	MTD	MTD		YTD	VTD	VTD		
### separate contributions   1,582,592   8,727,902   1,145,310   1			Actual	Budget	Variance	%	Actual	Budget	Variance	%	
revenues	pera	ting revenues: of water and delinguent fees	7,582,592	8,727,902	(1,145,310)	-13 196	88,986,228	94,466,300	(5,480,072)	-5 8%	-
revenues  113.690 27,690 17,090 172,488 17,725,332 2,137,690 11,432,488 1-1,432,488 191,097 133.065 11,1931 91,097 133.065 11,1931 91,097 133.065 11,1931 91,097 133.065 11,1931 91,997 130,058 130,055 141,969 15,999 11,193,688 11,1831 92,749,833 93,244 130,488 11,193,488 11,103,488 11,103,685 11,103,685 11,103,685 11,103,685 11,103,685 11,103,688 11,103,688 11,103,688 11,103,688 11,103,688 11,103,688 11,103,688 11,103,688 11,103,688 11,104,042 11,103,688 11,103,688 11,104,042 11,103,688 11,103,088 11,104,042 11,103,088 11,103,088 11,104,042 11,103,088 11,104,042 11,103,088 11,104,042 11,103,088 11,104,042 11,104,043 11,1	P.M.A	rape service charges and delinguent fees		ä	8.0	0.000	*	8	AT)	260 0	7
113.690	242	hing increation and license fees	28,950	27,690	1,260	4.6%	297,215	299,700	(2,485)	968 0-	3
revenues 7,725,322 9,157,690 (1,432,458) -1  72,902 92,961 (20,059) -2  91,097 133,065 (41,969) -1  760,194 648,363 (11,831 9,749,893 8,406,285 1,343,608 9,944,852 1,11,831 9,749,893 8,406,285 1,343,608 9,944,852 1,11,831 9,749,893 8,406,285 1,343,608 9,244 (32,323) -1  26,959 9,244 (32,325) -1,103,685 (1,692,305) -1,103,685 (1,692,305) -1,103,885 (1,692,305) -1,103,885 (1,692,305) -1,103,875 (1,692,304) -1,103,875 (1,692,304) -1,103,875 (1,692,304) -1,103,875 (1,694,740) -1,104,042 133  nues (expense):	The last	BING Mapherian and memory sees	113,690	402,098	(288,408)	-71 79,6	1 678 964	4,352,100	(2,673,136)	-61 40.6	4
72,902 92,961 (20,059) 91,097 133,065 (41,969) 91,097 133,065 (41,969) 91,097 133,065 (41,969) 760,194 648,363 111.831 9,749,893 8,406,285 1,543,008 1- 26,999 8,406,285 1,543,008 26,999 8,406,285 1,543,008 26,999 8,406,285 1,543,008 26,999 8,406,285 1,543,008 26,999 8,406,285 1,543,008 26,999 8,406,285 1,543,008 26,999 8,406,285 1,1331 26,999 8,406,285 1,1331 26,999 1,103,685 1,1331 26,999 1,103,685 1,142,062 1- 26,999 1,146,042 1- 26,999 1,146,042 1- 26,999 1,146,042 1- 26,999 1,146,042 1- 26,999 1,146,040 1,146,467 1- 30,081 1,1300,872 1,130,185 11 30,091 1,146,040 1,146,467 1- 30,091 1,146,040 1,146,467 1- 30,091 1,146,040 1,146,467 1- 30,091 1,300,872 1,1301,89 1,146,467 1- 30,091 1,300,872 1,1301,89 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,1301,99 1,146,467 1- 30,01 1,300,872 1,149,709 1,146,7407 1- 30,01 1,300,872 1,149,709 1,146,042 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,709 1,146,049 1- 30,01 1,300,872 1,149,019 1,460,049 1- 30,01 1,300,872 1,149,019 1,460,049 1- 30,01 1,300,872 1,149,019 1,460,049 1- 30,01 1,300,872 1,149,019 1,460,049 1- 30,01 1,300,872 1,149,019 1,460,049 1- 30,01 1,300,872 1,149,019 1,460		Total operating revenues	7 725 232	9,157,690	(1,437,458)	-15 6%	90,962,407	99,118,100	(8.155.693)	200,	2
72,902 92,961 (20,059) -61,097 133,065 (41,969) -760,194 648,363 (11,831 9749,893 8,406,285 (1,949) -11,1831 97,49,893 8,406,285 (1,34,508 130,433) -429,422 865,430 (130,433) -11,193,408 (1,33,796 1,103,685 (1,692,305) -11,103,685 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,103,485 (1,692,305) -11,104,1042 (1,313,346 1,378,086 (1,644,740) -1,104,1042 (1,313,346 1,	ners	fino Fynensec:									
91,097 133,065 (41,969)  10,097 133,065 (41,969)  10,094,893 8,406,285 1,343,608  10,0555 640,088 (330,433)  120,422 865,430 (436,008)  10,0555 640,088 (330,433)  120,922 865,430 (436,008)  10,103,796 1,103,685 (1,692,305)  10,103,796 1,303,685 (1,692,305)  10,103,796 1,303,936 (1,604,740)  10,103,796 1,103,694 1,104,042 133  10,103,104 1,103,66 1,104,104 131  10,105 1,104,042 132  10,105,105,105,105 1,105,105 1,105,105 1,105,105 1,105,105  10,105,105,105,105 1,105,105,105 1,105,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,105 1,105,10	p lod	tive Director	72,902	92,961	(20,059)	-21 6%	703,402	608,343	650.26	15 6%	9
11.83   760,194   648,363   111.83   9,749,893   8,406,285   1,345,608   309,655   640,088   (330,433)   1,429,422   865,430   (436,008   1,22,855   1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,622,305   1,103,685   (1,623,705   1,103,685   (1,623,705   1,103,685   (1,623,705   1,103,685   (1,623,705   1,103,685   (1,623,705   1,103,685   (1,623,705   (1,623,705   1,103,685   (1,623,705   (1,62	and a		91,097	133,065	(41,969)	-315%	643,123	870,787	(227,664)	-26.1%	7
ring sing sing sing sing sing sing sing s	Jeck	ילו	760,194	648,363	111,831	17.200	4,828,792	4,242,919	585,873	13 8%	00
itions    100,655   640,088   (330,433)   -29,422   865,430   (436,008)   -29,422   865,430   (436,008)   -29,244   (32,285)   -29,244   (32,285)   -29,244   (32,285)   -29,244   (32,285)   -29,244   (32,285)   -29,244   (32,285)   -29,244   (32,285)   -29,244   (32,285)   -23,993   -19,249,245   (1,692,305)   -19,24,248   (1,592,305)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   (32,293)   -19,244   -19,2	The Fr	Ly tions	9.749,893	8,406,285	1,343,608	16 0%	53,076,883	55,011,166	(1,934,283)	-3 5%	6
129,422   865,430   (436,088   -199,422   865,430   (436,088   -199,422   865,430   (436,088   -199,422   865,430   (436,088   -198,044   (32,285)   -198,044   (32,285)   -198,044   (32,285)   -198,044   (32,285)   -198,044   (32,285)   -198,044   (32,292,94)   (32,993   -198,044   (32,292,94)   (32,993   -198,044   (32,292,94)   (32,993   -198,044   (32,292,94)   (32,993   -198,044   (32,282   (32,993   -198,044   (32,282   (32,993   (32,9	per .		309,655	640,088	(330,433)	-516%	2,738,274	4,188,768	(1,450,494)	-34.6%	10
1,03,085   59,244   (32,285)   -1   1,03,685   -1   1,03,685   -1   1,03,685   -1   1,03,685   -1   1,03,685   -1   1,03,085   -1   1,03,085   -1   1,03,095	OTIE!	ing.	429,422	865,430	(436,008)	-50,4%	3,964,775	5,663,422	(1,698,647)	-30 0%	Ξ
(4,988,620) 1,103,685 (1,692,305) -1.  (1,033,796 1,930,956 (897,160) -23,993 -1.  (433,200) (2,529,294) 2,096,094 -1.261,248 3,003,310 (1,742,062) -1.  (1,213,346 14,378,086 (1,664,740) -1.27,13,346 14,378,086 (1,664,740) -1.32,283 (4,362) (5,296) (5,296) (5,296,994) -1.164,042 133 (4,362) (5,296) (5,296) (5,296) (5,296) (5,296,982) (5,297,622 (5,29			26,959	59,244	(32,285)	-545°a	214,689	387,699	(173,010)	44 6%	12
(4,988,114) (5,229,294) 2,096,094 - 1,261,248 3,003,310 (1,742,062) - 1,261,248 3,003,310 (1,742,062) - 1,2713,346 14,378,086 (1,664,740) - 1,172,847 8,805 1,164,042 133 (4,362) (5,296) (5,296) (5,296,089 - 1,300,872 (5,296) (5,296) (5,296,089 - 2,610,380 (5,149,709) 1,462,467 (5,149,709) 7,760,089 - 2,610,380 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089 (5,149,709) 7,760,089	di in	Distration	(588,620)	1,103,685	(1,692,305)	-153 3%	5,105,810	7.222,569	(2,116,759)	-29 3%	13
23,993 (23,993) -1 (433,200) (2,529,294) 2.096.094 - 1261,248 3,003.310 (1,742.062) - 12,713,346 14,378,086 (1,664,740) - 132,280 10,366 121,915 11 (4,362) (5,296) 933 (4,362) (5,296) 1,462,467 (56,297,622) - 2,610,380 (5,149,709) 1,462,467 (2,997,622) - 2,610,380 (5,149,709) 7,760,089 -	hief	Financial Officer	1,033,796	1,930,956	(897,160)	-46 500	9,941,508	12,636,276	(2,694,768)	-21 3%	14
(4,988,114) (5,229,294) 2,096,094 (1,261,248 3,003,310 (1,742,062) (1,713,346 14,378,086 (1,664,740) (1,72,847 8,805 1,164,042 132 (4,362) (5,296) (5,296) (5,296) (5,296) (5,296) (5,296) (5,296) (5,297,622 6,297,622 2,610,380 (5,149,709) 7,760,089 - 7,760,08	onfi	nuous Improvement	.00	23,993	(23,993)	-100.001-	42,276	157,010	(114,734)	-73 19.0	15
1,261,248 3,003,310 (1,742,062) 12,713,346 14,378,086 (1,664,740) 12,713,346 14,378,086 (1,664,740) 1,172,847 8,805 1,164,042 133 (4,362) (5,296) 933 (4,362) (5,296) 933 (4,362) (5,296) 1,462,467 (3,687,242) (5,149,709) 1,462,467 (2,510,380 (5,149,709) 7,760,089 -	ver	head and Budget Adjustments	(433,200)	(2,529,294)	2,096,094	°06 Z8-	(4,740,920)	(16,551,830)	11,810,910	-71 40.6	91
12,713,346	on-C	Cash Operating Expenses	1,261,248	3,003,310	(1.742.062)	-58.0%	14,433,599	21,130,571	(6.696.972)	-31 700	17
(4,988,114) (5,220,397) 232.283  (cxpense):  1,172,847 8,805 1,164,042 133  132,280 10,366 121,915 11  132,280 10,366 121,915 11  (4,362) (5,296) 933  (4,362) (5,296) 1230.185 17  contributions (3,687,242) (5,149,709) 1,462,467  (2,610,380 (5,149,709) 7,760,089 -		Total operating expenses	12,713,346	14,378,086	(1,664,740)	-116%	90,952,211	95,567,700	(4,615,489)	0.00	90
1,172,847   8,805   1,164,042   132   132,280   10,366   121,915   11   107   10,366   121,915   11   107   10,366   121,915   11   107   10,366   121,915   11   107   10,366   121,915   11   107   10,366   121,915   11   107   10,366   121,915   11   107   1300,872   1230,185   17	рег	ating income (loss)	(4,988,114)	(5,220,397)	232.283	4.4%	10,196	3,550,400	(3,540,204)	-99 796	19
1,172,847		onerating revenues (expense);		90							
1,172,847 8,805 1,164,042 133 (4,362) (5,296) 933 (4,362) (5,296) 933 (4,362) 1,300,872 70,687 1,230,185 17 (3,687,242) (5,149,709) 1,462,467 (5,297,622 5,610,380 (5,149,709) 7,760,089 -			*	6	Si	9600		30	W	0.000	20
1,172,847 8,805 1,164,042 132,280 10,366 121,915 11 107 56,812 1,300,872 1,308,722 1,308,722 1,308,722 1,308,722 1,308,722 1,309,709 1,462,467 6,297,622 2,610,380 1,7160,089	The	S-IIIII tav	( (9)	C 7.8	4	0.00.0	8	ю	ю	0.000	21
1,172,847 8,805 1,164,042 132,280 10,366 121,915 11 107 56,812 1,300,872 70,687 1,301,855 1,3687,242 6,297,622 2,610,380 (5,149,709) 7,760,089 -	1 .	CC-IIIII (av		9	id	950 0	0	SC.	78	0.09%	22
1,172,847 8,805 1,164,042 133 1,32,280 10,366 121,915 11 (4,362) (5,296) 933 107 56,812 (56,706) 1,300,872 70,687 1,230,185 17 (3,687,242) (5,149,709) 1,462,467 6,297,622 6,297,622 2,610,380 (5,149,709) 7,760,089	N. N.	- mill fox	*		54	0 000		15	ř	0.000	23
132,280 10,366 121,915 11 (4,362) (5,296) 933 107 56,812 (56,706) (3,687,242) (5,149,709) 1,462,467 (2,297,622 (5,149,709) 7,760,089 -	Inte	coefinoms	1.172.847	8,805	1,164,042	13220 2%	1,923,465	340,200	1,583,265	465 4%	24
(4,362) (5,296) 933 107 56,812 (56,706) 1,300,872 70,687 1,230,185 17 (3,687,242) (5,149,709) 1,462,467 6,297,622 6,297,622 2,610,380 (5,149,709) 7,760,089	ĺ	or Income	132.280	10,366	121,915	1176 1%	264,074	400,500	(136,426)	-34 1%	25
1,300,872 70,687 1,230,185 17 (3,687,242) (5,149,709) 1,462,467 (2,297,622 2,610,380 (5,149,709) 7,760,089	3 2	The strenge	(4,362)	(5.296)	933	-17.6%	(4,362)	(204,610)	200,248	-97 99%	76
(3,687,242) (5,149,709) 1,462,467 (5,297,622) 2,610,380 (5,149,709) 7,760,089		continuous mointenance organic	107	56.812	(56,706)	938 66-	1,832	2,195,067	(2.193.235)	9666-	27
(3,687,242) (5,149,709) 1,462,467 6,297,622 6,297,622 2,610,380 (5,149,709) 7,760,089 -	5	Total non-operating revenues	1.300.872	70,687	1,230,185	1740 3%	2,185,008	2,731,157	(546.149)	-20 0%	28
6,297,622 6,297,622 6,297,622 2,610,380 (5,149,709) 7,760,089 -			(2 697 2/2)	(\$149.709)	1 467 467	2007	2.195.204	6,281,557	(4.086,353)	-65 19.9	29
g of year	oou!	me before capital contributions	(242,180,5)	(001,741,0)	6 297 622	0.000	29,469,678		29,469,678	0.000	30
Net position, beginning of year Net position, end of year	Chai	nge in net position	2,610,380	(5.149.709)	7,760,089	-150 7%	31,664,882	6,281,557	25,383,325	404,1%	31
Net nosition, end of year	Net	position, beginning of year				1	337,110,237	318,792,375	18,317,862	5 7%	32
	Net	position, end of year					300,772,119	200,010,000	10,00		

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## WATER SYSTEM FUND STATEMENTS OF NET POSITION WITH PRIOR YEAR AND BEGINNING OF YEAR COMPARISONS SEWERAGE AND WATER BOARD OF NEW ORLEANS

December 2017

Prior   Vear   Variance   %   Vear   Vear   Variance   %   Vear   Vear   Variance   %   Vear   V		٧	65	С	Q	ω	Ŀ	G	
Property plant and equipment   St.554.235   74,357,971   374,8   80,144,046   71,842,879   8.9%   8.9%   8.9%   8.9%   8.9%   9.9%	Assets	Prior			Current			Beginning of	
Property plant and equipment   S02,584,235   74,359,791   9.5%   800,14,046   71,842,879   8.9%   8.6%   1.0%	Noncurrent assets:	Year	Variance	%	Year	Variance		Year	
Property, plant, and equivalents, and investments		805,584,255	74,559,791	9.3%	880,144,046	71,842,879	8.9%	808,301,167	_
Restricted cash, cash equivalents, and investments   10,224,462 (17,42,141)   1,8%   51,275,526 (17,45,535)   1,1%   4,5%   1,104		338.029.970	9,838,820	2 9%	347.868.790	10,057,599	3.0%	337,811,191	7
Delicative cash, cash equivalents, and investments   10,223,462 (17,43,434)   46,4%   54,800,221 (17,53,533)   46,5%   17,14,836   31,0%   3		467.554,285	64,720,971	13 8%	532,275,256	61,785,280	13.1%	470,489,976	173
Debt service recovered between setricted for capital projects   10,224,462   (17,43,434   11,636   13,636   1	Bestricted cash cath entities lents, and investments								
Publicaries reserve		102,224,462	(47,424,241)	46.4%	54,800,221	(47,536,353)	46.5%	102,336,574	4
Health Inturator everye  Total restricted cash cash equivalents, and investments  Degrand cash, cash equivalents, and investments  Cash and cash equivalents, and investments  11,773,473		16,750,155	815,195,01	62.0%	27,141,673	10,391,518	62.0%	16,750,155	40
Paignated cash, cash equivalents, and investments   19,582,402   36,906 fty   30,9%   87,661,783   37,144856   310%   3		607,785	112,104	18.4%	719,889	(1)	%00	719,890	9
Designated cash, and investments		119,582,402	(36,920,619)	-30 9%	82,661,783	(37,144.836)	-31 0%	119,806,619	7
Customer depoints  Other  Customer depoints  Other  Customer depoints  Other  Customer depoints  Other assets:  Other assets:  Customer depoints  Other assets:  Other assets:  Customer depoints  Other assets:  Other assets:  Deferred our dividence or expension liability  Deferred our duridons or resources:  Deferred our duridons or people or the passion liability  Deferred our duridons or resources:  Deferred our duridons or resources:  Deferred our duridons or resources:  Deferred our duridons or people or duri	Designated cash, cash equivalents, and investments								
Customer deposits   11,735,979   10,652,335   10,652,236   11,500,006   17,500   17,500   11,500   1		6,124,138	1.716,658	28.0%	7,840,796	453,717	6.1%	7,387,079	90
Total designated eash and cash equivalents, and investments		11,773,473	466,793	4 0%	12,240,266	466,793	4 0%	11,773,473	6
Total designated cash and cash equivalents, and investments   19,633,590   2,082,852   10.6%   21,716,442   932,016   4,5%		1,735,979	(100.599)	-5.8%	1.635,380	11,506	0 7%	1.623.874	10
Current saset:         Unredicted and underignated         18,945,970         (9,455,868)         -49.9%         9,490,102         (8,086,322)         -85.2%           Cash and cash equivalents         Accounts receivable:         0.0%         10,061,136         9,365,004         95.1%         19,424,140         6,755,211         34.8%           Taxes         Interest         0.0%         0.0%         0.0%         0.0%         0.0%           Grands         Miscellaneous         0.0%         0.0%         0.0%         0.0%         0.0%           Alsevalences         Miscellaneous         0.0%         0.0%         0.0%         0.0%         0.0%           Due from caterprise fund         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           Prepaid expenses         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           Other assets:         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           Deferred outflows or resources:         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           Deferred outflows or resources:         0.0%         0.0%         0.0%         0.0%         0.0%         0.0% <td></td> <td>19,633,590</td> <td>2,082,852</td> <td>10 6%</td> <td>21,716,442</td> <td>932,016</td> <td>4 5%</td> <td>20,784,426</td> <td>1</td>		19,633,590	2,082,852	10 6%	21,716,442	932,016	4 5%	20,784,426	1
Cash and cash equivalents         18,945,970         (9,455,868)         49 % 9, 490,102         (8,086,322)         -85 % %           Accounts receivable:         Customers (net of allowance for doubtful accounts)         10,061,136         9,365,004         93.1%         19,424,140         6,753,211         34.8%           Taxes         Interest         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           Grants         Miscellance of allowance for doubtful accounts)         10,661,136         9,365,004         93.1%         19,424,140         6,753,211         34.8%           Grants         Miscellance         0.0%         0.0%         0.0%         0.0%         0.0%           Grants         Miscellance         0.0%         1.36,652         (3.702,41)         64,191         7.1%           Dustomers         Prepaid expenses         1.066,552         57,028         1.8%         3.255,380         67,028         1.8%           Other assets:         Bond issue costs         Bond issue costs         0.0%         2.255,00         57,028         1.8%           Opposite         Total other assets:         Deferred amounts related to net pension liability         2.2360         2.2360         2.2350         2.2350         2.2350         2.3550 </td <td>Current assets: Unrestricted and undesignated</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Current assets: Unrestricted and undesignated								
Customers recovered	4	18,945,970	(9,455,868)	49 9%	9,490,102	(8,086,322)	-85 2%	17,576,424	12
Taxes   Constitute	C.	10 061 136	9 363 004	93 1%	19,424,140	6.753.211	34.0%	12,670,929	13
Cranist         0.0%		3	3	0.0%		84	0,0%		14
Grants         Miscellaneous         30,343,783         20,062,227         66,1%         50,406,010         15,483,174         63,0%           Miscellaneous         Miscellaneous         Miscellaneous         409,823         (279,261)         -68,1%         130,562         (330,144)         -71,7%           Due from enterprise fund         (10,766,533)         (1,206,008)         12 1%         (12,072,44)         (844,91)         7 %           Prepaid expenses         3,106,522         57,028         18%         3,233,580         57,028         18%           Other assets:         Bond issue costs         Collaborate costs		. 18		0.0%	2.	*1	0.0%	Ŷ	15
Miscellaneous         409,823         (279,261)         -68,1%         130,562         (330,144)         -71,7%           Due from enterprise fund         10,066,533         (1,306,008)         12,1%         (12,072,541)         (844,191)         7 5%           Inventory of supplies         Prepaid expenses         3,196,552         57,028         18%         3,253,580         57,028         18%           Other assets:         Bond issue costs         23,66,282         57,013         18,441,122         35.1%         71,018,135         17,032,756         31,6%           Other assets:         Bond issue costs         Bond issue costs         Bond issue costs         22,577,013         18,441,122         35.1%         71,018,135         17,032,756         31,6%           Total other assets         Deposits         22,577,013         18,441,122         35.1%         71,018,135         17,032,756         31,6%           Total other assets         Total other assets         22,577,013         18,441,122         35.1%         71,018,135         17,032,756         31,6%           Total outflows or resources:         Deferred outflows or resources:         6589,370,240         48,324,326         71,9%         5,634,346         6,64%           Deferred smounds related to not p		30,343,783	20,062,227	%1 99	50,406,010	19,483,174	63.0%	30,922,836	16
Due from enterprise fund         (10,766,533)         (1,306,088)         12 1%         (12,072,941)         (844,191)         7 5%           Inventory of supplies         Prepaid expenses         3,196,552         57,028         1 8%         3,255,880         57,028         1 8%           Prepaid expenses         Total unrestricted current assets:         386,282         5,00%         365,282         6,0%         6,0%         1,018,135         17,032,756         1 8%           Other assets:         Band issue costs         0.0%         22,577,013         18,441,122         35,1%         71,018,135         17,032,756         31,6%           Obehosits         Total other assets         Co.0%         22,590         0.0%         22,950         0.0%         0.0%         0.0%         0.0%           Total other assets         Total other assets         Total other assets         Total other assets         22,950         0.0%         22,950         0.0%		409,823	(279,261)	-68.1%	130,562	(330.144)	-71.7%	460,706	17
Inventory of supplies   3,196,552   57,028   18%   3,233,880   57,028   18%		(10,766,533)	(1,306,008)	12 1%	(12,072,541)	(844,191)	7 5%	(11,228,350)	18
Prepaid expenses   386,282   0.0%   386,282   0.0%   386,282   0.0%   36,282   0.0%   36,082   0.0%   36,082   0.0%   36,082   0.0%   36,082   0.0%   3.16%   5.2577,013   18,441,122   35,1%   71,018,135   17,032,756   31,6%   5.580   0.0%		3,196,552	57,028	1 8%	3,253,580	57,028	1 80%	3,196,552	19
Total unrestricted current assets         52,577,013         18,441,122         35.1%         71,018,135         17,032,756         31.6%         5           Other assets:         Bond issue costs         Common decision		386,282	960	%0.0	386,282	я	0.0%	386,282	20
Other assets:         Bond issue costs         0.0%         0.0%         0.0%           Deposits         22,950         0.0%         22,950         0.0%           Total other assets         Total other assets         72,950         0.0%         22,950         0.0%           TOTAL ASSETS         659,370,240         48,324,326         7.3%         707,694,566         42,605,216         6.4%         66           Deferred aunous related to mer pension liability         6,360,010         (725,164)         +11,4%         5,634,846         0.0%           Deferred amounts related to mer pension liability         6,380,010         (725,164)         +11,4%         5,634,846         0.0%           TOTAL DEFERRED OUTFLOWS OF RESOURCES         6,383,983         (729,526)         -11,4%         5,654,457         (4,362)         -18,2%           ACC 74,457         4,1362)         4,183,003         4,184,003         4,184,003         4,184,003         4,184,003         4,184,003         4,184,003         4,184,003         4,184,003         4,184,003         -11,4%         4,184,003         -11,4%         4,184,003         -11,4%         4,184,003         -11,4%         4,184,003         -11,4%         4,184,003         -11,4%         4,184,003         -11,4%         4,184,003	-	52,577,013	18,441,122	35.1%	71,018,135	17,032,756	31.6%	53,985,379	21
Bond issue costs         Bond issue costs         0.0%         <	0								
Total other assets		ří	ic.	0 0%	ń	(4)	%0 0		22
Total other assets  TOTAL ASSETS  TOTAL ASSETS  TOTAL ASSETS  Deferred outflows or resources:  Deferred amounts related to net pension liability  Deferred son bond refunding  TOTAL DEFERRED OUTFLOWS OF RESOURCES  TOTAL DEF		22,950	٠	0,00%	22,950		0.0%	22.950	- 2
Deferred outflows or resources:         6.569,370,240         48,324,326         7.3%         707,694,566         42,605,216         6.4%         66           Deferred outflows or resources:         Deferred amounts related to not pension liability         6.360,010         (725,164)         *11,4%         5.634,846         0.0%           TOTAL DEFERRED OUTFLOWS OF RESOURCES           Accordance Among a proper among and the pension liability           Accordance among related to not pension liability         6.360,010         (725,164)         *11,4%         5.634,846         0.0%           TOTAL DEFERRED OUTFLOWS OF RESOURCES           Accordance among related to not pension liability           Accordance among related to not		22,950		0.0%	22,950	:4	%0.0	22,950	24
Deferred outflows or resources:         6.360,010         (725,164)         *114%         5.634,846         * 009%           Deferred amounts related to not pension liability         23.973         (4.362)         *18.2%         19.611         (4.362)         *18.2%           TOTAL DEFERRED OUTFLOWS OF RESOURCES         6.383,983         (729,326)         -11.4%         5.654,457         (4.362)         -0.1%		659,370,240	48,324,326	7.3%	707.694.566	42,605,216	6.4%	055,089,350	25
Deferred loss on bond refunding         23 973         (4,362)         ×18 2%         19,611         (4,362)         -18,2%           TOTAL DEFERRED OUTFLOWS OF RESOURCES         6.383,983         (729,526)         -11,4%         5,654,457         (4,362)         -0,1%           CODAL DEFERRED OUTFLOWS OF RESOURCES         6.383,983         (729,526)         -11,4%         5,654,457         (4,362)         -0,1%           CODAL DEFERRED OUTFLOWS OF RESOURCES         6.382,983         47,548,600         -11,4%         5,654,457         (4,362)         -0,1%		010'096'9	(725,164)	*11 4%	5,634,846	6)	0 0%	5,634,846	26
TOTAL DEFERRED OUTFLOWS OF RESOURCES 6.383.983 (729.526) -11.4% 5.654,457 (4.362) -0.1%	Deferred loss on bond	23 973	(4.362)	.18 2%	19,611	(4.362)	-18.2%	23,973	74
65 475 47 504 800 at 10, 713 349 073 47 600 854 6 30,		6,383,983	(729,526)	-11.4%	5,654,457	(4.362)	-0 1%	5,658,819	27
0.50 75.227 5.207 5	29 TOTAL ASSETS AND TOTAL DEFERRED OUTFLOWS	665.754.223	47.594.800	4 1%	713,349,023	42,600,854	6 3%	670,748,169	28

## SEWERAGE AND WATER BOARD OF NEW ORLEANS WATER SYSTEM FUND STATEMENTS OF NET POSITION WITH PRIOR YEAR COMFARISONS December 2017

	~	00	C	Q	<u> </u>	ia.	G	
NET ASSETS AND LABBLITIES	Prior	Variance	*	Current	Variance	¥.	Beginning of Year	
Net position						4	5 5 6 6	,
Net investments in capital assets	245,612,658	68,204,140	2/8/0	313,816,798	(175,529,951)	-10.5%	350,742,119	٠, ١
Keitricted for Debt Service	16,213,181	110,191,01	Z :	20,004,098	9,634,343	26.876	10,70,133	4 (
Unrestricted	75,721,062	(46,067,419)	-62 4%	78 454 674	23, 423, 660	-192.4.3%	737 110 227	9 4
Loral net position	137 14h WII	21.028.218	9 47.4	308,773,119	31,009,662	4/78	127,111,155	P
Long-term liabilities								
Claims payable	830,189	(313,291)	-37 7%	516.898	100	%00	516,898	เก
Net pension obligation	25,655,855	3,374,365	13 2%	29,030,220	2,113,667	7.9%	26,916,553	9
Other postretirement benefits liability	24,967,504	3,206,058	12 8%	28,173,562	1,205,616	4 5%	26,967,946	7
Bonds payable (net of current maturities)	219,544,431	(3,716,235)	-1 7%	215,828,196	(3,716,235)	-1 7%	219,544,431	90
Special Community Disaster Loan Payable	.51	ŝ	0.0%	90	t	%00	8	6
Southeast Louisiana Project liability	*	ŭ	%00	čii	1	0 0%		01
Debt Service Assistance Fund Loan payable	4,622,185	(425.599)	-9 2%	4 196 586	(425,599)	-9 2%	4,622,185	11
Total long-term liabilities	275 620,164	2,125,298	%80	277,745,462	(822 551)	-0.3%	278,568,013	13
Current Habilities (payable from current assets)								
Accounts payable and other liabilities	11,763,960	10,291,054	87 5%	22,055,014	8,554,376	63 4%	13,500,638	13
Due to City of New Orleans	394,882	151,979	38 5%	546,861	151,979	38 5%	394,882	7
Disaster Reimbursement Revolving Loan	6,273,137	2,075,033	33 1%	8,348,170	2,615,999	45 6%	5,732,171	15
Retainers and estimates payable	4,767,712	667,450	14 0%	5,435,162	641,193	13 4%	4,793,969	16
Due to other fund	72,429	24,269	33.5%	869°96	23,454	32 0%	73,244	17
Accrued salaries, vacation and sick pay	4,959,845	(1,036,110)	-20 9%	3,923,735	(1,036,110)	-20 9%	4,959,845	18
Claims payable	3,793,256	1,126,684	29 7%	4,919,940	-	0.0%	4,919,939	19
Debt Service Assistance Fund Loan payable	406,727	18,872	4 6%	425,599	18,872	4 6%	406,727	20
Advances from federal government	4,509,820	(561,369)	-12 4%	3,948,451	(445,153)	-10 1%	4,393,604	21
Other Liablities	58,641	399,067	680 5%	457.708	382,175	206 0%	75.533	22
Total current liabilities (psyable from current assets)	37,000 409	13,156,920	35 6%	50,157,338	10,906,786	27 8%	39,250,552	23
Current liabilities (payable from restricted assets)								
Accrued interest	536,974	č	0 0%	536,974	ř.	%0 0	536,974	77
Bonds payable	2.540,000	120,000	4 7%	2,660,000	120,000	4 7%	2,540,000	25
Retainers and estimates payable	161,336	273,717	169 7%	435,053	264,944	155 7%	170,109	26
Customer deposits	11,773,473	466,793	4 0%	12 240 266	466.793	4 0%	11,773,473	27
Total current liabilities (payable from restricted assets)	15,011,783	860,510	5 77%	15.872.293	851.737	5 7%	15.020.556	28
TOTAL CURRENT LIABILITIES	52,012,192	14.017,439	27 0%	66.029.631	11,758 523	21 7%	54.271.108	53
TOTAL LABILITIES	327.632.356	16,142,737	4 0%	343,775.093	10.935.972	3 3%	332,839,121	30
Deferred laftows or resources; Deferred smanner related to not naminar lishility	074 066	(176.155)	% S	708 811		%00	798.813	F
TOTAL DEFERRED INFLOWS OF RESOURCES	974 966	(176.155)	18 1%	798.811	*	0.0%	798.811	3
								1
Total Net Position, Liabilities and Deferred Inflows of Resources	665,754,223	47,770,955	7 2%	713.349.023	42 600.854	6.4%	670,748,169	33

## SEWERAGE AND WATER BOARD OF NEW ORLEANS WATER SYSTEM FUND STATEMENTS OF CASH FLOWS December 2017

A B C YTD YTD YTD C Current Year Prior Year Variance	81,701,780 46,394,002 35,307,778 (36,285,749) (29,324,594) (6,961,155) (32,536,897) (19,336,655) (13,200,242) 2,306,522 2,718,551 (412,229)	264,073 119,209 144,864	90 30	264,073 119,209 144.864	(70,210,139) (15,195,374) (55,014,765) (2,946,727) - (2,946,727)		382,176 1,261,684 (879,508) 2,615,184 (652,210) 3,267,394 6,515,190 1,526,23 1,001,510	(10.027,237) (5	867.236 617.845 249.391	617,845	(44,299,559) (8,838,861) (35,460,698)	152.217.472 174.260.074 (22.042.602)	107.917.913 165.421.213 (57.503.300)	9,489,689 4,909,139 4,580,550 18,466,441 23,095,110 (4,628,669) 79,961,783 137,416,964 (57,455,181)	107.917.913 165.421.213 (57.503.300)
	Cash received from customers  Cash payments to suppliers for goods and services  Cash payments to employees for services  Other revenue	Cash flows from noncapital financing activities Proceeds from property taxes	Proceeds from federal perating and maintenance grants	Net cash provided by noncapital financing activities	Cash flows from capital and related financing activities Acquisition and construction of capital assets Principal payments on bonds payable Denotable from bonds payable	Payments for bond issuance costs  Povement for prefunded hand secrets open	Interest paid on bonds payable Proceeds from construction fund, net	Capital contributed by developers and rederat grants Net cash used in capital and related financing activities	Cash flows from investing activities Payments for purchase of investments Proceeds from maturities of investments Investment income	Net cash provided by investing activities	Net increase in cash	Cash at the beginning of the year	Cash at the end of the period	Reconciliation of cash and restricted cash Current assets - cash Current assets - designated Restricted assets -cash	Total cash

## SEWERAGE AND WATER BOARD OF NEW ORLEANS WATER SYSTEM FUND STATEMENTS OF CASH FLOWS December 2017

	*	В	C	Q	
	YTD Current Year	YTD Prior Year	YTD Variance	%	
Reconciliation of operating loss to net cash used in Operating activities is as follows: Operating loss Adjustments to reconcile net operating loss to net cash	10,197	(3,693,083)	3,703,280	-100 3%	-
used in operating activities:  Depreciation Provision for claims Provision for (revision) doubtful accounts Amortization	10,057,598 1,569,718 1,150,008	11,518,951 519,916 670,838	(1,461,353) 1,049,802 479,170	-12.7% 201.9% 71.4% 0.0%	12 to 2 to
Change in operating assets and liabilities: (Increase) decrease in customer and other receivables Increase in inventory	(7,436,428) (57,028)	(1,866,561)	(5,569,867)	298.4%	9
Increase (decrease) in deferred outflows of resources related to net pension liability	0	V.	0	0.0%	90
Increase (decrease) in prepaid expenses and other receivables Decrease in net pension asset Increase (decrease) in accounts payable	1,174,335	1,387,427	(213,092)	-15.4% 0.0% -180.0%	9 10 11
Increase (decrease) in accrued salaries, due to pension and accrued vacation and sick pay Increase in net other postretirement benefits liability Increase (decrease) in net pension obligation Decrease in other liabilities	(1,011,841) 1,205,616 2,113,667 (1,417,738)	(59,518) 1,054,914 1,057,232 (360,325)	(952,323) 150,702 1,056,435 (1,057,413)	1600.1% 14.3% 99.9% 293.5%	12 13 14 15 15
Increase (decrease) in deferred inflows of resources related to met pension liability	(4)	22	*	%0.0	16
Net cash used in operating activities	15,185,456	451.322	14,734,134	3264.7%	17

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS

# SEWER SYSTEM FUND STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH PRIOR YEAR COMPARISONS December 2017

YTD         YTD           Prior Vear         Variance           103,168,194         5,894,229           318,510         (27,295)           505,847         8,061           505,847         8,061           447,420         218,318         44           477,876         162,258         3           35,914,097         3,444,168         3           21,66,096         712,874         3           3,615,323         211,005         -3           3,615,323         211,005         -3           4,372,633         (149,537)         -3           8,195,446         1,339,960         1           3,615,323         211,005         -3           4,372,633         (149,537)         -3           8,195,446         1,339,960         1           58,627         (16,351)         -2           76,548,676         9,090,744         1           76,548,676         9,090,744         1           76,548,676         9,090,744         1           27,443,875         (1,734,139)         1,342,080           (1,734,159)         1,342,080         1           28,334,689         (2,059,991) <th></th> <th>A</th> <th>22</th> <th>J</th> <th>a</th> <th>4</th> <th>•</th> <th>,</th> <th></th>		A	22	J	a	4	•	,	
regenuse fees and definement fees   9,373,428   8,710,192   665,236   7 6%   109,062,423   103,168,194   5,99,129   5 7%   5 and dirense fees   3,729   3,410   (18,850)   375%   319,121   318,10   17,295   5 6%   5 75%   319,068   31,209   31,420		MTD	MTD Prior Vear	MTD	%	YTD	YTD Prior Year	YTD	%
special particular (ess)         9,373,428         8,710,193         66,326         7 Gr, 10900,423         (16,8194)         5,847,295         5 Fragility           stranges and definitioned (ess)         5,720         4,819         7.78,4         291,215         318,310         (27,355)         8 Gr           sig revenues         5,720         4,819         (78,090)         37,28         5,19,305         305,847         8 Gr           sig revenues         9,410,568         8,815,321         6,05,247         6,9%         10,992,531         5,874,995         5,6%           sig revenues         9,410,7         39,729         27,147         6,3%         6,0,134         477,876         10,293,531         5,8%           sig revenues         6,63,756         4,17,247         3,136         10,29%         6,0,134         477,876         10,293,531         5,8%           sig Repairse         4,00,401         2,40,204         17,238         60 %         2,144,168         3,249,771         3,444,168         3,549,771         3,444,168         3,549,773         3,444,168         3,549,773         3,444,168         3,549,773         3,444,168         3,549,773         3,444,168         3,549,773         3,444,168         3,549,773         3,444,168         3,549,77	g revenues:	1		ě	0.00		5.40	541	0.00%
## Committee	water and definiquent tees o comico charges and delinguent fees	9.373.428	8,710,192	663,236	7 6%	109,062,423	103,168,194	5,894,229	5 70.0
Signature   Sign	a inspection and license fees	31,420	50,310	(18,890)	-37 506	291,215	318,510	(27,295)	-8 60.0
## 1992.551   1992.551	E majorina	5,720	14,819	(39,099)	-87 20%	513.908	505,847	8.061	16%
## 66856 1.7799 2.7147 6.34% 665738 447420 2.18318 488% 667736 667736 67734 1.171389 1.295% 640134 477,876 162.358 3.49% 667736 6.7736 6.7736 1.1738 1.295% 640134 477,876 1.1238 3.49% 667736 6.7736 6.7736 1.1738 1.138% 3.127378 3.140% 3.140	operating revenues	9,410,568	8 805.321	605.247	9,69	109.867.546	103,992,551	5,874,995	5 690
66,856   12,709   27,147   63,6%   665,738   447,420   21,318   488%     66,736   67,735   57,318   82%   64,1134   74,240   21,318   488%     66,736   67,735   50,381   82%   64,1134   74,240   21,318   488%     66,736   67,735   50,381   82%   64,1134   74,240   21,318   488%     66,736   617,355   50,381   82%   64,1134   74,240   21,318   44,011     66,736   67,738   14,097   22,9%   97,283   31,2138   34,07     40,040   246,630   14,097   27,7%   31,263   31,2138   31,000     56,425   57,48   14,1097   57,7%   31,263   31,646   14,007   34,410     56,425   51,432   52,748   14,1097   57,7%   31,263     515,425   515,425   515,428   51,423   51,423     616,090   74,123   74,123   74,120   74,120   74,120     515,425   515,425   51,423   51,423   51,420     616,000   74,123   74,123   74,120   74,120   74,120     616,000   74,123   74,120   74,120   74,120   74,120     616,000   74,123   74,120   74,120   74,120   74,120     616,000   74,123   74,120   74,120   74,120   74,120   74,120     616,000   74,123   74,120   74,120   74,120   74,120   74,120     616,000   74,120   74,120   74,120   74,120   74,120   74,120     616,000   74,120   74,120   74,120   74,120   74,120   74,120   74,120     616,000   74,120   74,120   74,120   74,120   74,120   74,120   74,120     616,000   74,120   74,120   74,120   74,120   74,120   74,120   74,120     616,000   74,120   74,	Expenses:								
Second Control Contr	Director	958'69	12,709	27,147	63,6%	665,738	147,420	218,318	10000
Colorabid Colo	unsel	60,16	39,729	51.368	129 3%	640,134	477,876	162,258	34.0%
Part		667,736	617,355	50,381	00 700	4,171,389	3,227,378	944,011	29 3%
## 1996   1998	un.	6,442,570	4,047,447	2,395,123	59.20	39,358,265	35,914,097	3,444,168	9 66.9
1,005,000   1,005	. 6	420,401	248,663	171,738	69 166	2,878,970	2,166,096	712,874	32.9%
1,000,000		408,845	267,748	141,097	52 700	3,826,328	3,615,323	211,005	5 896
Strict   S	1001	26,959	51,401	(24,442)	47 600	214,689	306,997	(92,308)	-30 196
Application	Totion	515,482	582,398	(916,916)	-11500	4,223,096	4,372,633	(149,537)	-3.4%
with distincts         41,583         (10,00%         42,776         58,627         (16,351)         279%           Adjustments         Adjustments         (428,654)         (458,855)         (29,801         -6.5%         (456,509)         (451,2826)         (21,93)         12%           Appenses         1,832,632         (33,30711         (1,507,079)         -45 1%         24,648,148         20,2796         2368,539         10,6%           Appenses         11,041,164         9,751,213         1,289,951         13,2%         85,639,420         76,348,676         9,091,744         11 9%           Appenses         11,041,164         9,751,213         1,289,951         13,2%         85,639,420         76,348,676         9,091,744         11 9%           Appenses         11,041,164         9,751,213         1,289,951         13,2%         85,59,420         76,348,676         9,091,744         11 9%           Appenses         11,041,164         9,751,213         1,28%         9,00%         27,443,875         3,215,730         -117%           Appense         165,888         1,754,068         9,752,20         -2,109,402         231,1325         27,443,875         3,215,730         -117%           Appense         165,888 <t< td=""><td>ancial Officer</td><td>994,639</td><td>941,324</td><td>53,315</td><td>5,700</td><td>9,535,406</td><td>8,195,446</td><td>1,339,960</td><td>16,4%</td></t<>	ancial Officer	994,639	941,324	53,315	5,700	9,535,406	8,195,446	1,339,960	16,4%
(429,054) (458,855) 29,801 -65% (4,565,019) (4,512,826) (52,193) 12% 11,041,164 9,751,213 1,289,931 13,2% 34,28,128 22,279,609 2,368,539 10,6% 11,041,164 9,751,213 1,289,931 13,2% 34,228,125 27,443,875 (3,215,730) -11,7% 16,392 (945,892) (684,704) 72,4% 24,228,125 27,443,875 (3,215,730) -11,7% 16,979 (1,754,068 (97,220) -5,5% 2,109,402 2,311,925 (202,523) -8,8% 16,399 (1,734,159) (1,734,142) (1,734,159) (1,734,142) (1,734,	III [mnrovement		31,583	(31,583)	-100.0%	42,276	58,627	(16,351)	-27 99 °
1,832,632   3,339,711   (1,507,079)   45   %   24,648,148   22,279,609   2,368,539   106%   11,041,164   9,751,213   1,289,951   13,2%   85,639,420   76,548,676   9,090,744   119%   11,041,164   9,751,213   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,951   1,249,952   1,341,882   1,341,882   1,341,892   1,341,423   1,341,431   1	and Budget Adjustments	(429,054)	(458.855)	29.801	-6 500	(4,565,019)	(4,512,826)	(52,193)	1 200
11,041,164   9,751,213   1,289,951   13,2%   85,639,420   76,548,676   9,090,744   119%   11,041,164   9,751,213   1,289,951   13,2%   24,228,125   27,443,875   (3,215,750)   -117%   1,00%	Onerating Expenses	1.832.632	3,339,711	(1.507.079)	45 1%	24,648,148	909,672,22	2.368.539	10.69.6
(expense):         0.0%         24,228,125         27,443,875         (3,215,750)         -11.7%           (expense):         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           1,656,848         1,754,068         (97,220)         -5.8%         2,109,402         2,311,925         (202,523)         -8.8%           1,64,979         (1,734,159)         (1,734,159)         (1,734,159)         (1,734,159)         1,342,080         -77.4%         20,46,573         89.6         1,342,080         -77.4%         1,342,473         1,342,473         1,342,473         1,342,473         2,346,473	al operating expenses	11,041,164	9,751,213	1,289,951	13.2%	85,639,420	76,548,676	9,090,744	11 9%
1,656,848 1,754,068 (97,220) -5.5% 2,109,402 2,311,925 (202,523) -8 8% 1,64,979 164,371 608 0.4% 329,350 313,048 16,302 5.2% (149) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -73,5% (100) (1,734,142) 1,342,080 -73,5% (100) 1,384,089 (1,734,423) 1,343,489 (1,732,353 -295,0% (6.660,759) 7,151,882 (491,123) -6.9% (1,345,470) 2,282,968 -169,7% (763,119,641] 28,981,123 20,9% (1,345,470) 2,282,968 -169,7% (100,350 765,119,641] 28,981,123 20,9% (1,345,470) 2,282,968 -169,7% (1,345,470) 2,282,968 -169,7% (100,350 765,119,641] 28,981,123 20,9% (1,345,470) 2,282,968 -169,7% (1,345,470) 2,282,968 -169,	g income (loss)	(1.630,596)	(945,892)	(684.704)	72 4%	24,228,125	27,443,875	(3,215,750)	-11 70.6
1,656,848 1,754,068 (97,220) -5.5% 2,109,402 2,311,925 (202,523) -8.8% (14,979 164,371 608 0.4% 329,350 313,048 16,302 5.2% (149) 0.0% (1,734,159) 1,342,080 -77.4% (100) 0.0% (100) 1,429,599 184,280 1.245,319 675.8% 2,046,573 890.814 1,155,759 129,7% (200,997) (761,612) 560,615 77.8% 6,660,759 7.151.882 (491,123) -6.9% 937,198 (1,345,470) 2,282,968 -169.7% 7763,119,641 28,981,195 3.8%	ating revenues (expense):				0				7000
1,656,848	tax	(4)		æ	0.0.0	50	ni.		0.00
1,656,848	vill tax	300	7.27	6	0.00	ST.	14	3	0.0%
1,656,848 1,754,068 (97,220) -5.5% 2,109,402 2,311,925 (202,523) -8.8% 164,979 164,371 608 0.4% 329,350 313,048 16,302 5.2% (392,079) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 -77,4% (100) (1,734,159) 1,342,080 (1,245,319 675.8% 2,046,573 890.814 1,155,759 129,7% (200,997) (761,612) 560,615 -73.6% 6,660,759 7,151.882 (491,123) -6.9% 937,198 (1,345,470) 2,282,968 -169.7% 32,935,457 35,486,571 7,434,423 20,9% 32,935,457 35,486,571 7,434,423 20,9%	fax	000	7	((*	0 000	(4)	×		0.0%
1,656,848 1,754,068 (97,220) -5.5% 2,109,402 2,311,925 (202,523) -8.8% (392,079) (1,734,159) 1,342,080 -77,4% (392,079) (1,734,159) 1,342,080 -77,4% (149) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -0.0% (140) -17,4% (140) -1	II tax	æ	(*)	(90	0.00	*.1	ic	<i>i</i> )	0.0%
164,979   164,371   608   0.4%   329,350   313,048   16,302   5.2%     164,979   164,371   608   0.4%   329,350   313,048   16,302   5.2%     164,979   (1,734,159)   (1,342,080   -77.4%   (100)   (100)   (1,734,159)   (1,342,080   -77.4%   (100)   (1,245,319   6.75.8%   2,046,573   890,814   1,155,759   129,7%     1,429,599   184,280   1,245,319   675,8%   2,046,573   890,814   1,155,759   129,7%     1,138,495   1,821,858   1,722,353   -295.0%   6.660,759   7,151,882   (491,123)   -6.9%     1,345,470   2,282,968   -169.7%   32,935,457   35,486,571   7,434,423   20.9%     1,345,470   2,282,968   -169.7%   7,931,196,41   28,981,191   38,981,191     1,38,495   1,345,470   2,282,968   -169.7%   7,931,196,41   28,981,191   38,	income	1,656,848	1,754,068	(97,220)	-5.5%	2,109,402	2,311,925	(202,523)	000
(392,079) (1,734,159) 1,342,080 -77.4% (392,079) (1,734,159) 1,342,080 -77,4% (149) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -0.0% (100) -73.4% (100) -0.0% (100) -73.4% (100) -	псоте	164,979	164,371	909	0.400	329.350	313,048	16,502	2%0
(149) - (149) 0.0% (100) - (100) 0.0% (100) - (100) 0.0% (100) 0.0	expense	(392,079)	(1,734,159)	1,342,080	-77 400	(392,079)	(1,734,159)	1,342,080	-77.400
(200,997) (761,612) 560,615 -73.6% 26,274,698 28,334,689 (2,059,991) -7.3% (1,38.495 12,345,470) 2,295.0% (6,60,759 76,146,470) 2,282,968 -169.7% (1,345,470) 2,282,968 -169.7% (1,345,470) 2,282,968 -169.7% (1,345,470) 2,382,968 -169.7% (1,345,470	ng and maintenance grants	(149)	D	(149)	0.0%	(1001)	::*	(100)	0 00%
(200,997) (761,612) 560,615 -73.6% 26,274,698 28,334,689 (2,059,991) -7.3% (1,138,495 1,722,353 -2.93.0% 6.660,759 7.151.882 (491,123) -6.9% (1,345,470) 2,282,968 -169.7% 792,100,336 763,119,641 28,981,195 3.8%	al non-operating revenues	1,429,599	184 280	1.245,319	675.8%	2,046,573	890.814	1,155,759	129 7%
1,138,495 (1,345,470) 2,282,968 -169.7% 5,060,759 7,151,882 (491,123) -6.9% 937,198 (1,345,470) 2,282,968 -169.7% 7,93,1457 35,486,571 7,434,423 20.9% 792,109.836 763,119.641 28,981,195 3,8%	sefore canital contributions	(200,997)	(761,612)	\$60,615	-73.6%	36,274,698	28,334,689	(2,059,991)	-7 3%
937,198 (1,345,470) 2,282,968 -1697° 32,935,457 35,486,571 7,434,423 20.99°,	contributions	1.138.495	(583,858)	1,722,353	-295 090	6.660,759	7,151,882	(491,123)	-6 90
792,100,836 763,119,641 28,981,195 3.8%	in net position	937,198	(1,345,470)	2,282,968	-169 700	32,935,457	35,486,571	7,434,423	20 9%
	tion, beginning of year				I	792,100 836	763,119,641	28,981,195	3.8%

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS

# SEWER SYSTEM FUND STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH BUDGET COMPARISONS December 2017

		*	В	C	D	E	ĹŦų	ß	H	
		MTD Actual	MTD Budget	MTD Variance	%	YTD Actuał	YTD Budget	VTD Variance	%	
,	Operating revenues:			104	5600	3		160	0.09%	_
٠ ,	Sales of water and delinquent fees	9.373.428	10.513.556	(1,140,128)	-10 8%	109,062,423	113,793,300	(4,730,877)	4 2%	7
4 %	Sewerage service chalges and considered to plumbing inspection and license fees	31,420	30,129	1,291	4 3%	291,215	326,100	(34,885)	-10.7%	3
J 4	Other revenues	5.720	55.186	(49,465)	-89 68.	513.908	597,300	(83,392)	-14 0%	4
· v	Total operating revenues	9.410,569	10.598,871	(1.188.302)	-11.2%	109,867,546	114.716.700	(4,849,154)	4.2%	vo.
٧	Operating Expenses:	69.856	82,525	(12,669)	-15 4%	665,738	540,047	125,691	23 3%	9
9 1	Shanial Chinesel	91,097	111,214	(20,117)	-18.1%	640,134	727,787	(87,653)	-12 0%	7
~ 0	Special Counses	667.736	574,223	93,513	16,3%	4,171,389	3,757,744	413,645	11.0%	90
0	Onemations	6,442,570	5,704,235	738,335	12 9%	39,358,265	37,328,810	2,029,455	5 40.6	6
` <u>=</u>	Engineering	120,401	771.700	(351,299)	-45 500	2,878,970	5,050,044	(2,171,074)	+13.0%	10
2 =	Logistics	408,845	843,015	(434,169)	-51 500	3,826,328	5,516,732	(1,690,404)	-30.6%	Ξ
12	Communications	26,959	59,244	(32,285)	-54 500	214,689	387,699	(173,010)	-44 60.0	12
1 5	Administration	515,482	732,808	(217,326)	-29 70.0	4,223,096	4,795,536	(572,440)	-11 900	13
14	Chief Einancial Officer	994,639	1,850,122	(855,483)	46 200	9,535,406	12,107,293	(2,571,887)	-21.200	14
		ř.	23,993	(23,993)	-100.00°	42,276	157,010	(114,734)	-73 19,6	15
7		(429,054)	1,166,031	(1,595,084)	-136.8%	(4,565,019)	7,630,565	(12,195,584)	-159 8%	91
1		832,632	4,631,556	(2,798,924)	-60.4%	24,648,148	32.586.523	(7,938.375)	-24 49 0	17
18		11,041,164	16,550,665	(5,509,501)	-33.3%	85,639,420	110,585,790	(24,946,370)	-22 6%	18
10	Charating income (loss)	(1.630.506)	(5 951 794)	4 321 199	-72 6%	24,228,125	4.130.910	20.097,215	486.5%	19
1										
	Non-operating revenues (expense):		×		000				000	20
20		ě	*);	2	0.000	,	i :		0.000	2 -
21	Three-mill tax	147	OF	14	0.000	•;	é.	1	0,00	17
22	Six-mill tax	<u>a</u>	*	•	0.6%	B 3	E 1		0.00.0	77 6
23			***	0010071	0.000	1 001 001 0	+ 000	1 465 407	327 500	2 4
24		1,656,848	11 060	153 010	1770 405	329,350	462,100	(132,750)	-28 7%	15
9 %	Uner Income	(970 595)	(53,401)	(338.679)	634 2%	(392,079)	(2,063,241)	1,671,162	-81 0%	97
07		(6+1)	56,812	(56,962)	-100 3%	(100)	2.195,067	(2.195.167)	-100.0%	27
1 24		1 429 599	32,040	1,397,559	4361 9%	2,046,573	1,237,926	808.647	65.3%	28
29	Income before canital contributions	(200,997)	(5,919,754)	5,718,757	.96.6%	26,274,698	5,368,836	20,905,862	389.4%	29
30		1 138 495		1,138,495	0.00.0	6 660.759		6.660,759	0 000	30
31		937,498	(5,919,754)	6,857,253	-115 896	32,935,457	5.368,836	27,566,621	513 5%	31
32					1	792,100,836	763,119,641	56,547,815	3.80	32
M	3 Net position, end of year					Section of the sectio	A STREET, ST.		,	

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## SEWERAGE AND WATER BOARD OF NEW ORLEANS SEWER SYSTEM FUND STATEMENTS OF NET POSITION WITH PRIOR YEAR AND BEGINNING OF YEAR COMPARISONS December 2017

		A	B	S	Q	B	iz.	G	
	Assets	Prior			Current			Beginning of	
	Noncurrent assets:	Year	Variance	%	Year	Variance	%	Year	
-	Property, plant and equipment	1,238,851,220	70,275,058	5.796	1,309,126,278	64,501,527	5 2%	1,244,624,751	-
7	Less; accumulated depreciation	264,269,323	20,699,502	7,8%	284,968,825	20.623.384	7 8%	264.345.441	2
67	Property, plant, and equipment, net	974,581,897	49,575,556	5.1%	1,024,157,453	43,878,143	4.5%	980,279,310	m
	Restricted cash, cash equivalents, and investments								
4	Cash and cash equivalents restricted for capital projects	60,880,220	(52,740,607)	-86 6%	8,139,613	(53,085,492).	-86.7%	61,225,105	4
rt3	Debt service reserve	30,393,522	13,019,266	42.8%	43,412,788	13,019,266	42.8%	30,393,522	10
9	Health insurance reserve	626 441	71,400	11.4%	697,841	(1)	0.0%	697,842	9
7	Total restricted cash, cash equivalents, and investments	91,900,183	(39,649,941)	43,1%	52,250,242	(40,066,227)	-43 4%	92,316,469	7
	Designated each east action has be and investments								
98	Cash and cash equivalents des	38,648,885	(4,756.807)	-12 3%	33,892,078	(5,626,427)	-14.2%	39,518,505	96
6		· (#/	134	960 0	ā	1	%00	9	6
10		1.222.105	(62,204)	-5 1%	1,159,901	9,197	0.8%	1,150,704	10
11	Total designated cash and cash equivalents, and investments	39,870,990	(4,819,011)	-12 1%	35,051,979	(5,617,230)	-13.8%	40,669,209	11
12	_	23.111.903	(5.451,008)	-23.6%	17,660,895	(4,236,497)	-193%	21.897.392	12
-	Accounts receivable:	100 875 11	146.007.0	100 31	CEA MAG OC	F37 022 7	46 10/	300 002 01	•
13		11,374,081	6,080,341	0/5 0/	20,034,922	0,050,40	40 1/0	15,725,905	2 ;
14		. 0	4 6	0.000	* 8	. 6	0.00%	160	4 4
0 9		10 206 01	24 540	11 70%	71 476 500	77 605 0601	20.070	24 AR2 550	C 7
1 2	Missilonasiis	3,009,305	(911 869)	-17.0%	7 497 436	2 258 732	946.7%	238 704	17
138	Δ	12,386,722	15,131,236	122.2%	27,517,958	15,233,285	124.0%	12,284,673	. 99
19		1,065,179	97,794	9.2%	1,162,973	97,793	9.2%	1,065,180	119
20	Prepaid expenses	231.700		0.0%	231,700	Ä	0.0%	231,700	20
21	Total unrestricted current assets	70,406,989	20,195,077	28.7%	90,602,066	17,077,902	23,2%	73,524,164	21
	Other assets:								
22	Bond issue costs	R	3	0.0%	160	×	0.00%	3	22
23	Deposits	17.965	*:	%0 0	17,965		0.0%	17,965	23
24	Total other assets	17,965	*	0.0%	17,965	-	0,0%	17,965	24
25	TOTAL ASSETS	1,176,778.024	25,301,681	2.2%	1,202,079,705	15.272.588	1.3%	1.3% 1.186.807.117	25
26	Deferred outflows or resources:  Deferred amounts related to net pension liability  Deferred loss on bond refunding	6,360,010	(660,022)	0.00%	5,634,846	(392,080)	0.0%	5.634,846	26
28	⊢	9 9 7 0 764	(1,385,186)	-13,002	8.585,078	(392,080)	-4,4%	8,977,158	78
29	9 TOTAL ASSETS AND TOTAL DEFERRED OUTFLOWS	1.186.748.288	23,916,495	-11 7%	-11 7% 1.210.664.783	14.880,508	-3.1%	-3.1% 1.195,784,275	29

1 2%

2 0% 1,210,664,783 14,880,508

1,186,748,288 24,092,650

33 Total Net Position, Liabilities and Deferred Inflows of Resources

## SEWERAGE AND WATER BOARD OF NEW ORLEANS

## SEWER SYSTEM FUND STATEMENTS OF NET POSITION WITH PRIOR YEAR COMPARISONS

NET ASSETS AND LIABILITIES  Net position  Net investments in capital assets  Restricted for Debt Service  Unrestricted  Total net position  Long-term liabilities  Claims payable  Ner pension obligation  Other posterictement benefits liability	Prior  Year  Year  708,270,644 28,790,387 61,545,181 798,606,212 830,189	Variance	4				Beginning of	
Net position  Net investments in capital assets  Restricted for Debt Service  Unrastricted  Total net position  Long-term liabilities  Claims payable  Net peusion obligation  Other postretirement benefits liability	708.270.644 28,790,387 61,545,181 798,606.212 830,189			Current	Variance	%	Year	
Restricted for Debt Service  Unrestricted  Total net position  Long-term liabilities  Claims payable  Net pension obligation  Other postrictrement benefits liability	708,270,644 28,790,387 61,545,181 704,606,212 830,189							
2 Restricted for Debt Service 3 Unrestricted 4 Total net position Long-term liabilities 5 Chains payable 6 Net pension obligation 7 Other postructivement benefits liability	28,790,387 61,545,181 798,606,212 830,189	65,092,171	9.5%	773,362,815	(1,665,141)	-0 2%	775,027,956	-
Unrestricted  I Total net position  Long-term liabilities  Chains payable  Net pension obligation  Other posterierment benefits liability	61,545,18] 708,606,212 830,189	13,019,266	45 2%	41,809,653	11,416,131	37 6%	30,393,522	M
Long-term liabilities  Claims payable  Net pension obligation  Other postretirement benefits liability	830,189 25,655,855	(51,681,356)	-84 0%	9,863,825	23,184,467	-174 0%	(13,320,642)	(c)
Long-term liabilities  Claims payable  Net pension obligation  Other postretirement benefits liability	830,189	26.430,081	3.3%	825,036,293	32,935 457	4.2%	792, 100, 836	4
Claims payable     Net pension obligation     Other postredirement benefits liability	830,189							
6 Net pension obligation 7 Other postredirement benefits liability	25.655.855	(313,291)	-37 7%	516,898	×	%00	516,898	w
7 Other postretirement benefits liability		3,374,365	13.2%	29,030,220	2,113,667	7 9%	26,916,553	9
	21,989,157	3,206,058	14 6%	25 195,215	1,205,616	5 0%	23,989,599	7
S Bonds payable (net of current maturities)	253,079,459	(13,890,374)	-5 5%	239,189,085	(13,890,374)	-5 5%	253,079,459	90
9 Special Community Disaster Loan Payable		ii	%00	-	iA	0 0%	15	9
10 Southeast Louisiana Project liability	000	18	%00	24	(0)	0.00%	-41	01
11 Debt Service Assistance Fund Loan payable	45,017,430	(4.145.594)	-9.2%	40,891,845	(4,145,591)	.42%	45,017,439	=
12 Total long-term liabilities	346,592,000	(11,768 816)	-3 4%	334 823 263	(14.716 685)	4.2%	349 530 948	17
13 Accounts payable and other finbilities	11,204,620	908,124	%1 B	12 112,744	(3,865,981)	-24 2%	15,978,725	13
	Tü	19	%0 0	4		0.0%	15	3
	(1,483,071)	5,731,460	-386 5%	4,248,389	(396,536)	-8 5%	4,644,925	5
	3,103,945	487,887	15 7%	3,591,832	452,134	14 4%	3,139,698	91
17 Due to other fund	33,997	11,392	33.5%	45,389	11,080	32 3%	34,309	17
18 Accrued salaries, vacation and sick pay	3,234,738	235,274	7 3%	3,470,012	235,274	7 3%	3,234,738	<u>60</u>
19 Claims payable	2,644,608	2,035,804	77 0%	4,680,412	-	0 0%	4,680,411	19
20 Debt Service Assistance Fund Loan payable	3,961,768	183,826	4 6%	4,145,594	183,826	4.6%	3,961,768	20
21 Advances from federal government	1,976,305	340	0 0%	1,976,305	29	0 0%	1,976,305	21
22 Other Liabilities	284,400	(151.791)	-53 4%	132,618	114.251	622.0%	18367	22
23 Total current fiabilities (payable from current assets)	24 961 319	9 441 976	37 8%	34 403,295	(3.265.951)	-8 7%	37 669 246	23
Current liabilities (payable from restricted awets)								
24 Accrued interest	1,603,135	х	0 0%	1,603,135	**	0 0%	1,603,135	*
25 Bonds payable	13,397,000	(1,041,000)	-7 8%	12,356,000	1,041,000	7 8%	13,397,000	25
26 Retainers and estimates payable	613,557	1,030,429	167.9%	1,643,986	(968,687)	-143.4%	675,299	26
		*	0.0%		۲.	760 0	*	27
28 Total current liabilities (payable from restricted assets)	15,613,642	(10.571)	-0 1%	15,603,121	(72,313)	%5 0-	15 675 434	28
29 TOTAL CURRENT LIABILITIES	40,575,011	9.431.405	23 2%	50,006,416	(3,338,264)	%E9-	53,344,680	29
30 TOTAL LIABILITIES	187,167,110	(2,337,431)	%9.0-	384,829,679	(18,054,949)	4.5%	402.884.62R	30
_	330 450	V V V	90	110 000		900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
32 TOTAL DEFERRED INFLOWS OF RESOURCES	974 966	(176,155)	-18.1%	798.811		0 0%	798 811	3 2

## SEWERAGE AND WATER BOARD OF NEW ORLEANS SEWER SYSTEM FUND STATEMENTS OF CASH FLOWS December 2017

Cash flows from operating activities   Cash received from extended from customers to supplies for goods and services   101,667,134   38,623,687   43,043,447   713,486   Cash payments to supplies for goods and services   101,667,134   38,623,687   43,043,447   713,486   Cash payments to supplies for goods and services   101,667,134   32,033,701   32,032,460   34,459   34,459   32,033,701   32,032,460   3	1 2 8 4 8	@ L & 6	10 11 12 13 14 15 16 17	19 20 21 22 23	24	26 27 28 28
Cash flows from operating activities   Cash flows from operating activities   Cash payments to employees for services   Cash payments to employees for services   101.667,134   \$8.623.687   \$3.020.13.12   \$(3.020.13.12)   \$(3.	73.4% 45.9% 584.4% -195.7%	121.5% 0.0% 0.0% 121.5%	373.7% 0.0% 0.0% 0.0% -89.6% -73.9% -54.4%	0.0% 0.0% 38.8% 38.8% -389.5%	-12.9%	150.9% -47.2% -57.1% -46.2%
Cash flows from operating activities  Cash payments to employees for services Cash payments to employees for services Cash payments to employees for services Cash flows from moreapital floancing activities  Cash flows from moreapital floancing activities  Proceeds from federal operating activities  Cash flows from moreapital floancing activities  Cash flows from moreapital floancing activities  Cash flows from capital and related floancing activities  Cash flows from capital and related floancing activities  Cash flows from modes payable  Proceeds from donds payable  Proceeds from donds payable  Proceeds from donds payable  Proceeds from donds payable  Proceeds from construction of capital assets  Payments for bond issuance costs  Payments for bond issuance costs  Payments for purchase of investments  Payments for purchase of investments  Proceeds from maturities of investments  Net increase in cash and related financing activities  Cash at the beginning of the year  Cash at the beginning of the year  Carrent assets – designated  Current assets – cash  Current asset – cash  Current asset – cash  Current asset – cash  Current asset – cash	C YTD Variance 43,043,447 (13,859,031) (32,502,448) 5,936,137 2,618,105	180,674	(47,759,879) (17,358,768) 	160,874 160,874 (67,162,900)	(22.977.663)	10,620,986 (31,394,133) (69,367,424) (90,140,571)
Cash flows from operating activities Cash payments to suppliers for goods and services Cash payments to suppliers for goods and services Cash payments to employees for services Other revouce Net cash used in operating activities Proceeds from property saxes Proceeds from property saxes Proceeds from property saxes Proceeds from property saxes Proceeds from federal operating and maintenance grants Cash received paid to an other government Net cash provided by noncapital financing activities Acquisition and construction of capital assets Principal payments on bonds payable Proceeds from bonds payable Proceeds from bonds payable Proceeds from bond survetopers and federal grants Net cash used in capital and related financing activities Net cash used in capital and related financing activities Proceeds from maturities of investments Net cash provided by investing activities Net cash provided by investing activities Net cash provided by investing activities Net cash at the end of the period Cash at the beginning of the year  Cash at the saste - cash Current assets - cash Current assets - cash Current assets - cash Total cash	Prior Year 58,623,687 (30,201,312) (5,561,343) (3,033,570) (9,827,462	148,676	(12,778,723) - - 373,021 (1,521,383) 10,780,053 (3,147,032)	414,119 414,119	177,803,739	7,040,186 66,446,112 121.560,666 195.046,964
Cash flows from operating activities Cash received from customers Cash payments to suppliers for Cash payments to employees for Other revenue Net cash used in operating activates Proceeds from property taxes Proceeds from federal operating Cash flows from capital and related Acquisition and construction of Principal payments on bonds payable Principal payments on bonds payable Principal payments on bonds payable Payment to refunded bon descential and recash used in capital and re Capital contributed by develor Net cash used in capital and re Cash flows from investing activities Payments for purchase of inve Proceeds from maturities of in Investment income Net cash bused in capital and re Cash flows from investing activities Payments for purchase of inve Proceeds from cash as the beginning Cash at the beginning Cash at the beginning Current assets - cash	A YTD Current Year 101,667,134 (44,060,343) (38,063,791) 2,902,567 22,445,567	329,350	(60,538,602) (17,358,768) - 75,420 38,830 (396,849) 4.910,384 (73,269,585)	574,993 574,993 (49,919,675)	154.826.076	17,661,172 35,051,979 52,193,242 104,906,393
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

## SEWERAGE AND WATER BOARD OF NEW ORLEANS SEWER SYSTEM FUND STATEMENTS OF CASH FLOWS December 2017

	.0	6 2	%	9 9	9	\c	2 0		×0			% 11	% 12			% 15	71 %		17
<b>a</b> %	21 8%	118.4%	201 4%	71 4%	%00	266 6%	%00	6	%0 O	446.5%	0.0%	-54.2%	-764.0%	14.3%	%6.66	201.4%	7000	5	13.2%
C YTD Variance	4,331,303	11,179,893	666,785	443,679	**	(707 775 2)	(97,794)		OF	(16,926,811)	Ŧ	7,574,678	283,817	150,702	1,056,435	(666,785)			2.618.105
B YTD Prior Year	19,896,830	9,443,491	331,075	621,153	*1	(2 017 492)	(4,011,0,4)		ú	3,790,970	300	(13,982,485)	(37,151)	1,054,914	1,057,232	(331,075)		<b>1</b> 03	19 827.462
A YTD Current Year	24,228,133	20,623,384	098'.666	1,064,832	361	(086 505 1)	(97,794)		180	(13,135,841)	ST.	(6,407,807)	246,666	1,205,616	2,113,667	(098,860)			22,445,567
	Reconciliation of operating loss to net cash used in operating activities is as follows:  Operating loss Adjustments to reconcile net operating loss to net cash	used in operating activities: Depreciation	Provision for claims	Provision for (revision) doubtful accounts	Amortization	Change in operating assets and liabilities:	(Increase) decrease in cusiomer and bluer receivables Increase in inventory	Increase (decrease) in deferred outflows of resources	related to net pension liability Increase (decrease) in prepaid expenses	and other receivables	Decrease in net pension asset	Increase (decrease) in accounts payable	nension and accreed vacation and sick pay	Increase in net other postretirement benefits liability	Increase (decrease) in net pension obligation	Decrease in other liabilities	Increase (decrease) in deferred inflows of resources	related to net pension maninty	Net cash used in operating activities

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# SEWERAGE AND WATER BOARD OF NEW ORLEANS DRAINAGE SYSTEM FUND STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH PRIOR YEAR COMPARISONS December 2017

|                   |                                     | _  | 7  | 3   | 4   | vo.  |   | 9  | ) t  | - 0  | × 0×   | 6  | 10   
   | 11   | 17  | 13   | 14  
   
   
   | 15   | 91  | 17  | 90  | 19   
   
   
   | 20  
   
   | 3 7  | 2]   | 22  | 23   | 24  | 25   
  | 26   
   | 27  
   | 28  | 29  |   |   | 32   |
|-------------------|-------------------------------------|--|--|---|---|--|---|--|--|--|--|--
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---|---|---|---|--|
| %                 |                                     | 0.600  | 0.00.0   | 0,000   | 91 100  | 91 169   |   | \$1.0%   | 2009   | 0.1.0  | 0.0/7  | 109 400  | 32 3%  
   | 13 4%  | -30 1%  | -18.300  | 0.86.6  
   
   
   | -27 9ª o   | 1 100   | 16 8%   | 46 6%   | 46.0%  
   
   
   | 63 70.  
   
   | 0.7.00   | 00/1   | 5 1%  | 5 1%   | -3 800  | 0.600  
  | 64 8%  
   | 0,000   
   | 4 495   | 460 2%  | -88,4%  | -105 8%   | 9 86.  |
| YTD               |                                     | 9  | *  | *   | 579,696   | 579,696  |   | 717 516  | 20 501   | 150,80   | 820,734  | 18,383,389   | 560,035  
   | 507.422  | (92,307)  | (643,951)  | 294,288   
   
   
   | (16,351)   | (38,747)  | 3.524,857   | 23,556,506  | (22,976,809)   
   
   
   | (101)   
   
   | (12/1)   | 106,961  | 798,383   | 1,196,548  | (6,687)   | ř  
  | (21,052)   
   | (*/   
   | 2,369,362   | (20,607,447)  | (80.627.746)  | (101,235,194)   | 12,800,618)  |
| YTD<br>Prior Year |                                     | ñ  | 1  |   | 636,213   | 636.213  |   | 110 207  | 105,500  | 605,500  | 2,972,155  | 16,802,423   | 1,732,815  
   | 3,777,430  | 306,996   | 3,518,689  | 2,997,263   
   
   
   | 58,627   | (3,654,124)   | 21,023,312  | 50,590,402  | (49.954.189)   
   
   
   | 3C3 L   
   
   | 070'/  | 15,373,454   | 15,538,326  | 23,291,247   | 253,938   | 7.6  
  | (32,471)   
   |   
   | 54,432,020  | 4,477,831   | 91,223,721  | 95,701,552  | 1,096,477,851  |
| YTD               |                                     | ×  | ((*)   | 18  | 1 215 909   | 1,215,909  |   | 230 927  | 020,033  | 001,510  | 3,792,889  | 35,185,812   | 2,292,850  
   | 4,284,852  | 214,689   | 2,874,738  | 3,291,551   
   
   
   | 42,276   | (3,692,871)   | 24,548,169  | 74,146,908  | (72,930,998)   
   
   
   | 766 6   
   
   | 2,733  | 15,783,415   | 16,336,709  | 24,487,795   | 244,251   | SE   
  | (53,523)   
   | A.  
   | 56,801,382  | (16,129,616)  | 10.595,975  | (5,533,642)   | 1,093,677,233  |
| %                 |                                     | 0 000  | 9:00   | 0.00  | -85 0%  | -85 0%   |   | . 80 07  | 0.8 8.0  | 0.6 +  | 5 100  | 35450  | 9,699  
   | 24 500   | 47 600  | -121 3%  | 9609-   
   
   
   | -100 00:   | -15.1%  | -0.9%   | 964 16  | 92.3%  
   
   
   | 707 1170  
   
   | 96/.4%   | 453,8%   | 211 0%  | 210,9%   | -17 80.0  | 0.000  
  | 64 896   
   | 0.00%   
   | 197 89%   | 85 196  | 96'96"  | -108 80%  | 11 11  |
| MTD               |                                     | y  | 8:   | ð   | 1961 801  | (23,196)   |   |  | 19/1/2   | 20,473   | 29.016   | 5,314,978  | 122,483  
   | 75,161   | (24,442)  | (597 093)  | (25,443)  
   
   
   | (31,583)   | 57,658  | (9)961)   | 4,949,353   | (4,072,549)  
   
   
   | E C   
   
   | 577  | 330,971  | 155,635   | 233,169  | (21,016)  | ıď   
  | (21,052)   
   | 8   
   | 678.084   | (4.294.466)   | (80,113,091)  | (84,407,557)  |  |
| MTD<br>Prior Vear | 1011                                | 19   | ¥  | ,   | 77 294  | 27.294   |   | 1  | 39,759   | 82,275   | 570,091  | 1,499,241  | 182,966  
   | 306,575  | 51.401  | 197 197  | 421.867   
   
   
   | 31.583   | (381,918)   | 2,118,032   | 5,414,064   | (5,386,770)  
   
   
   | i   
   
   | 36   | 72,926   | 73,750  | 110,537  | 117,986   | ¥  
  | (32,471)   
   | ж   
   | 342,767   | (\$ 044 063)  | 82 641 720  | 717,597,777   |  |
| MTD               | Actual                              |  |  | ,   | 4 098   | 4 098  |   |  | 67.520   | 102,748  | 599,107  | 6.814.219  | 305,449  
   | 381 736  | 656 92  | (104 901)  | 396 424   
   
   
   | (a   | (324,260)   | 2.098.416   | 10,363,417  | (10.359.319)   
   
   
   |   
   
   | 416  | 403,897  | 229,385   | 343,706  | 96,970  | 7.0  
  | (53,523)   
   |   
   | 1.020.851   | (0 338 469)   | 2 528 679   | (6,809,840)   |  | | | | | | | | |
|                   | •                                   | Operating revenues:                                | Sales of water and definitioned feet                           |   |   | Othe   |   | Operating Expenses:  | Executive Director   | 7 Special Counsel  |  |  |  
   |  |   |  |   
   
   
   |  |   |   |   | Operating income (loss)  
   
   
   | Non-operating revenues (expense):   
   
   |  |  |   |  |   |  
  |  
   |   
   |   |   |   |   | 32 Net position, beginning of year   |
|                   | MTD MTD YTD YTD YTD YTD Prior Vocat | MTD MTD MTD YTD YTD YTD ACtual Prior Vear Variance | MTD MTD WTD YTD YTD YTD ACTUAL Actual Prior Year Variance 0.0% | MTD MTD YTD YTD YTD YTD YTD Operating revenues:  Operating revenues:  Sales of water and delinquent fees  Conceptual Prior Year Variance % Actual Prior Year Variance %  Sales of water and delinquent fees  Outline Sales of water and delinquent fees  Outline Sales of water and delinquent fees | MTD MTD YTD YTD YTD YTD YTD YTD YTD Operating revenues:  Actual Prior Year Variance % Actual Prior Year Variance % Sales of water and delinquent fees | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Vear         VTD         YTD         YTD         Opposition of the prior Vear         VTD         VTD         VTD         VTD         Opposition of the prior Vear         VTD         VTD         Opposition of the prior Vear         VTD         VTD         VTD         Opposition of the prior Vear         Opposition of the pri | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         YTD         YTD         YTD         Opposition of the prior Year         %         Actual         Prior Year         %         Actual         Prior Year         %         Opposition of the prior Year         %         Actual         Prior Year         YTD         YTD         YTD         %         Opposition of the prior Year         %         Opposition of the prior Year         %         Opposition of the prior Year         Actual         Prior Year         YTD         YTD         YTD         %         Opposition of the prior Year         %         Opposition of the prior Year         %         Opposition of the prior Year         Opposition of the prior Year | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         YTD         YTD         %           Operating revenues:         Sales of water and delinquent fees         0.0%         < | MTD         MTD         YTD         YTD         YTD           Actual         Prior Year         Variance         %         Actual         Prior Year         Variance         %           delinquent fees         0.0%         0.0 | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         YTD         YTD | Operating revenues:         Actual         Prior Year         VTD         YTD         YT | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         YTD         YTD | Operating revenues:         Actual         Prior Year         VTD         YTD         YT | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         YTD         YTD         YTD         Op/0%         %         Actual         Prior Year         %         Op/0%         %         Actual         Prior Year         VTD         %         Op/0%         %         Op/0%         %         Op/0%         %         Op/0%         Op/0% | Opcrating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %           Sales of water and delinquent fees         Sales of water and delinquent fees         0.0%         < | Opcrating Expenses:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         VTD         VTD | Opcrating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %           Operating revenues:         Sales of water and delinquent fees         Actual         Prior Vear         Variance         %         Actual         Prior Vear         %           Sewerage service charges and delinquent fees         4.098         27.294         (23,196)         85.0%         1,215.909         636.213         579.696         911%           Plumbing inspection and license fees         4.098         27.294         (23,196)         85.0%         1,215.909         636.213         579.696         911%           Other revenues         Total operating Expenses:         Executive Director         67.204         (23,196)         85.0%         1,215.909         636.213         579.696         911%           Operating Expenses:         Executive Director         67.204         27.294         (23,196)         85.0%         1,215.909         636.213         579.696         911%           Special Counsel         Special Counsel         599.107         570.091         29.016         51.05         35.185.812         1,215.46         51.0%           Special Counsel         599.107         570.091         29.04 <t< th=""><th>Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         VTD</th><th>Operating Exeruses:         Actual         Prior Vear         VTD         YTD         YTD           Sake soft water and delinquent fees         Actual         Prior Vear         0.0% of 0.0</th><th>Operating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %         Actual         Prior Vear         %         Operating revenues:         %         Actual         Prior Vear         %         Op/s         %         Actual         Prior Vear         %         Actual         Prior</th><th>Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         %         Actual</th><th>Opcrating revenues:         Actual         Frior Vear         Variance         %         Actual         Prior Vear         Variance         %         Actual         Prior Vear         VTD         VTD         VTD         VTD         Ops.         Sales of water and definiquent fees         %         Actual         Prior Vear         Variance         %         Actual         Prior Vear         VTD         Ops.         Ops.<!--</th--><th>Operating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %           Operating revenues:         Seases of warter and delinquent fees         6.00%         0.0%         4.00%         0.0%<th>Opcrating revenues:         Actual         Prior Vear         VTD         VT</th><th>Operating revenues:         Actual         Prior Vert         VTD         VT</th><th>Actual Actual Actual Actual Actual Prior Vear Actual Prior Vear Actual Prior Vear Nariance Actual Prior Vear Nariance National Actual Prior Vear Nariance National Nation</th><th>Operating revenues:         Actual         Prior Vear         VTD         VT</th><th>  MITD   MITD   MITD   WITD   WITD  </th><th>  MTD   MTD</th><th>MID         MID         MID         MID         MID         VID         VID<th>MITD         MITD         <th< th=""><th>MITD         MITD         MITD         MITD         MITD         VTD         VT</th><th>  NITD   NITD  </th><th>  NITD   NITD  </th><th>Actual         Form Very         WTD         WTD         WTD         YTD         <t< th=""><th>Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         <th< th=""></th<></th></t<></th></th<></th></th></th></th></t<> | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         VTD         VTD | Operating Exeruses:         Actual         Prior Vear         VTD         YTD         YTD           Sake soft water and delinquent fees         Actual         Prior Vear         0.0% of 0.0 | Operating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %         Actual         Prior Vear         %         Operating revenues:         %         Actual         Prior Vear         %         Op/s         %         Actual         Prior Vear         %         Actual         Prior | Operating revenues:         Actual         Prior Year         Variance         %         Actual         Prior Year         %         Actual | Opcrating revenues:         Actual         Frior Vear         Variance         %         Actual         Prior Vear         Variance         %         Actual         Prior Vear         VTD         VTD         VTD         VTD         Ops.         Sales of water and definiquent fees         %         Actual         Prior Vear         Variance         %         Actual         Prior Vear         VTD         Ops.         Ops. </th <th>Operating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %           Operating revenues:         Seases of warter and delinquent fees         6.00%         0.0%         4.00%         0.0%<th>Opcrating revenues:         Actual         Prior Vear         VTD         VT</th><th>Operating revenues:         Actual         Prior Vert         VTD         VT</th><th>Actual Actual Actual Actual Actual Prior Vear Actual Prior Vear Actual Prior Vear Nariance Actual Prior Vear Nariance National Actual Prior Vear Nariance National Nation</th><th>Operating revenues:         Actual         Prior Vear         VTD         VT</th><th>  MITD   MITD   MITD   WITD   WITD  </th><th>  MTD   MTD</th><th>MID         MID         MID         MID         MID         VID         VID<th>MITD         MITD         <th< th=""><th>MITD         MITD         MITD         MITD         MITD         VTD         VT</th><th>  NITD   NITD  </th><th>  NITD   NITD  </th><th>Actual         Form Very         WTD         WTD         WTD         YTD         <t< th=""><th>Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         <th< th=""></th<></th></t<></th></th<></th></th></th> | Operating revenues:         Actual         Prior Vear         Variance         %         Actual         Prior Vear         Variance         %           Operating revenues:         Seases of warter and delinquent fees         6.00%         0.0%         4.00%         0.0% <th>Opcrating revenues:         Actual         Prior Vear         VTD         VT</th> <th>Operating revenues:         Actual         Prior Vert         VTD         VT</th> <th>Actual Actual Actual Actual Actual Prior Vear Actual Prior Vear Actual Prior Vear Nariance Actual Prior Vear Nariance National Actual Prior Vear Nariance National Nation</th> <th>Operating revenues:         Actual         Prior Vear         VTD         VT</th> <th>  MITD   MITD   MITD   WITD   WITD  </th> <th>  MTD   MTD</th> <th>MID         MID         MID         MID         MID         VID         VID<th>MITD         MITD         <th< th=""><th>MITD         MITD         MITD         MITD         MITD         VTD         VT</th><th>  NITD   NITD  </th><th>  NITD   NITD  </th><th>Actual         Form Very         WTD         WTD         WTD         YTD         <t< th=""><th>Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         <th< th=""></th<></th></t<></th></th<></th></th> | Opcrating revenues:         Actual         Prior Vear         VTD         VT | Operating revenues:         Actual         Prior Vert         VTD         VT | Actual Actual Actual Actual Actual Prior Vear Actual Prior Vear Actual Prior Vear Nariance Actual Prior Vear Nariance National Actual Prior Vear Nariance National Nation | Operating revenues:         Actual         Prior Vear         VTD         VT | MITD   MITD   MITD   WITD   WITD | MTD   MTD | MID         MID         MID         MID         MID         VID         VID <th>MITD         MITD         <th< th=""><th>MITD         MITD         MITD         MITD         MITD         VTD         VT</th><th>  NITD   NITD  </th><th>  NITD   NITD  </th><th>Actual         Form Very         WTD         WTD         WTD         YTD         <t< th=""><th>Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         <th< th=""></th<></th></t<></th></th<></th> | MITD         MITD <th< th=""><th>MITD         MITD         MITD         MITD         MITD         VTD         VT</th><th>  NITD   NITD  </th><th>  NITD   NITD  </th><th>Actual         Form Very         WTD         WTD         WTD         YTD         <t< th=""><th>Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         <th< th=""></th<></th></t<></th></th<> | MITD         MITD         MITD         MITD         MITD         VTD         VT | NITD   NITD | NITD   NITD | Actual         Form Very         WTD         WTD         WTD         YTD         YTD <t< th=""><th>Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         <th< th=""></th<></th></t<> | Operating Expenses         Actual         Frier Vera         WITD         NITD         NITD         VITD         VITD <th< th=""></th<> |

### Printed: 4/6/2018 5/25 PM

# SEWERAGE AND WATER BOARD OF NEW ORLEANS DRAINAGE SYSTEM FUND STATEMENT OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION WITH BUDGET COMPARISONS December 2017

MTD
00% 00% 00% 00% 00% 00% 00% 00% 00% 00%
1,00%   1,215,909   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,136,787   1,215,909   1,215,913   1,215,91
4,098 0.0% 1,215,909  74,520 (7,000) -9.4% 636,833 487,662 173,713 (70,966) -10.9% 636,833 487,662 173,713 (70,966) -10.9% 636,833 487,662 173,713 (70,966) -10.9% 6,73,100 1,136,787 3,338,786 3,475,433 104,1% 35,185,812 21,899,191 17 596,702 (291,253) 48.8% 2,292,889 3,488,445 596,702 (291,253) -48.8% 2,292,889 3,904,846 (602,060 (205,636) -117.6% 2,814,738 3,904,866 (10,288,568) 904,309 -174.8% 3,592,811 3,939,913 (23,993) -100.0% 4,246,822 (34,32,459) (43,42,459) (43,42,459) (43,42,459) (43,42,459) (446,60) 45.8% (3,692,871) (8,432,459) (446,160) 45.8% (3,692,871) (8,432,459) (66,994,749) (9,913,159) (446,160) 45.9% (72,930,998) (66,994,749) (9,913,159) (446,160) 45.9% (72,930,998) (66,994,749) (9,913,159) (446,160) 45.9% (33,523) (130,300) (23,338) (36,1382) (36,1382) (313,3372) (34,13372) (34,1382) (4107,337) (10,1% (11,181,3712)
4,098 00% 1,215,909 487,662 1,215,909 49,8 00% 1,215,909 41,215,909 41,215,909 41,215,909 41,215,909 41,215,909 41,215,909 41,215,910 41,215,91
74,520         (7,000)         -9.4%         656,853         487,662           173,713         (70,966)         -40.9%         656,853         487,662           173,713         (70,966)         -40.9%         675,100         1,136,787           533,071         (6,036)         -12.4%         3,792,889         3,488,445           5,96,702         (291,533)         -48.8%         2,292,850         3,904,846           5,96,702         (291,533)         -48.8%         2,392,860         3,904,846           5,96,702         (291,533)         -48.8%         2,424,822         3,804,846           5,96,702         (291,533)         -48.8%         2,424,822         3,804,846           5,96,702         (291,533)         -48.8%         2,424,822         3,804,846           6,02,660         (20,660)         -117.6%         2,874,738         3,904,846           6,02,660         (20,6636)         -117.6%         2,874,738         3,904,846           6,02,660         (20,6636)         -14.8%         3,591,551         3,939,913           43,16,19         (41,10,60)         -14.8%         3,544,82         3,904,846           (1,288,568)         (6,94,309)         -14.8%         3,548,169
74,520 (7,000) -9,4% 636,853 487,662 173,713 (70,966) 40,9% 675,100 1,136,787 533,071 66,036 12,4% 3792,889 3,488,445 3,338,786 3,475,433 104.1% 35,185,812 21,849,191 15 596,702 (291,253) 48.8% 2,292,850 3,904,846 (701,606) -117.6% 2,874,738 3,904,866 (701,606) -117.6% 2,874,738 3,904,866 (71,288,568) 662,096 (205,636) -147.6% 2,874,738 3,904,866 (71,288,568) 664,309 -74.8% (3,692,871) (8,432,459) (446,160) 45% (72,930,988) (66,994,749) (69,913,159) (446,160) 45% (72,930,988) (66,994,749) (66,994,749) (66,994,749) (66,994,749) (66,994,749) (66,994,749) (66,994,749) (715,956) -43.4% (72,930,988) (66,994,749) (72,930,988) (72,930,988) (72,930,938) (72,930,988) (
74,520 (7,000) -9.4% 636,833 487,662 173,713 (70,966) 40.9% 675,100 1,136,787 533,071 66,036 12.4% 35,185,812 21,849,191 11,35,782 3,338,786 3,475,433 10.41% 35,185,812 21,849,191 11,35,723 886,515 (504,579) -56.9% 4,284,852 5,800,090 (70,450) 11,76% 2,874,738 3,904,846 (70,450) 11,76% 2,874,738 3,904,866 (70,450) 11,76% 2,874,738 3,904,866 (70,450) 11,76% 2,874,738 3,939,913 123,933 (23,933) -100.0% 4,224,325 3,939,913 129 (22,820) -110,00% 4,246,989 (66,994,749) (9,913,159) (446,160) 4.5% 74,146,908 (66,994,749) (66,994,749) (9,913,159) (446,160) 4.5% 74,146,908 (66,994,749) (66,994,749) (9,913,159) (446,160) 4.5% 74,146,908 (66,994,749) (66,994,749) (9,913,159) (446,160) 4.5% 74,146,908 (66,994,749) (66,994,749) (72,323,38 (25,338) -100,0% 2,448,7795 23,475,190 9,913,73) (50,151) 1428,188 (4107,337) -28.5% 56,801,382 55,801,382 55,811,037
173,713
333,071       66,036       12.4%       3.792,889       3,488,445         3,338,786       3,475,433       104.1%       35,185,812       21,849,191       11         596,702       (291,253)       48.8%       2,292,850       3,904,846       (         886,315       (504,579)       -56.9%       4,284,852       5,800,090       (         592,244       (32,285)       -54.5%       214,689       387,699         596,705       (701,606)       -117.6%       2,874,738       3,904,806       (         602,060       (205,636)       -117.6%       2,874,738       3,904,806       (         602,060       (205,636)       -117.6%       2,874,738       3,904,806       (         (1,288,568)       964,309       -117.6%       2,874,738       3,909,913       (         4316,619       (22,18203)       -51.4%       24,548,169       30,370,699       (         405,31159       (446,160)       45%       (72,930,998)       (66,994,749)       (         (9,913,159)       (446,160)       45%       (72,930,998)       (66,994,749)       (         (9,913,159)       (446,160)       45%       (72,930,998)       (66,994,749)       (         <
3,338,786 3,475,433 10419; 3,5185,812 21,849,191 11 596,702 (291,253) 48.8°6 2,292,850 3,904,846 (86,315 (30,4579) -56,99a 4,124,852 5,800,090 (205,636) -117,6%a 2,874,738 3,904,866 (602,060 (205,636) -117,6%a 2,874,738 3,904,866 (1,288,568) (20,636) -117,6%a 2,874,738 3,904,866 (1,288,568) (20,630) -117,6%a 2,874,738 (1,46,908 (1,288,568) (1,46,160) -1,14%a (1,15,956) -1,14%a (1,11,813,712) -1,14%a (1,11,813,712) -1,14%a (1,11,813,712) -1,14%a (1,11,813,712)
596,702         (291,353)         48 8%         2,292,850         3,904,846         (           886,315         (304,579)         -56,9%         4,284,852         5,800,090         (           592,44         (32,285)         -54.5%         214,689         387,699         (           596,705         (701,606)         -117,6%         2,874,738         3,904,866         (           602,060         (205,636)         -342%         3,291,551         3,939,913         3593,913           1,288,568)         (20,636)         -74 8%         (3,692,871)         (8,432,459)         (           1,1288,568)         (42,309)         -74 8%         (3,692,871)         (8,432,459)         (           4,316,619         (2218,203)         -51.4%         24,548,169         30,370,699         (           4,316,619         (2218,203)         -51.4%         24,548,169         30,370,699         (           4,316,619         (446,160)         4.5%         (72,930,998)         (66,994,749)         (           4,316,619         (446,160)         4.5%         (72,930,998)         (66,994,749)         (           5,313,159         (446,160)         4.5%         (72,930,998)         (66,994,749)         (
886,315         (304,579)         -56,9%         4,284,852         5,800,090         (701,606)         -117,6%         2,874,738         3,904,866         (602,606         (205,636)         -14,689         387,699         387,699         387,699         387,699         387,699         387,699         387,699         387,699         387,699         387,699         387,699         3939,913         3939,913         42,276         157,010         157,010         42,276         157,010         42,276         157,010         4316,619         -74,8%         (3,692,871)         (8,432,459)         (6,994,749)         (7,218,203)         -31,4%         24,548,169         30,370,699         (6,994,749)         (7,218,203)         43,146,908         66,994,749         (6,994,749)         (7,218,203)         (72,930,998)         (66,994,749)         (7,218,203)         (7,218,
59,244       (32,285)       -54.5%       214,689       387,699         596,705       (701,606)       -117,6%       2,874,738       3,904,866       (6         602,060       (205,636)       -34.2%       3,291,551       3,939,913         12,28,568)       (23,993)       -100.0%       42,276       157,010         1,1288,568)       964,309       -74.8%       (3,692,871)       (8,432,459)         4,316,619       (22,18,203)       -51.4%       24,548,169       30,370,699         4,316,619       (42,218,203)       -51.4%       24,548,169       30,370,699         4,316,619       (42,218,203)       -51.4%       24,548,169       30,370,699         4,316,619       (42,218,203)       -51.4%       74,146,908       66,994,749         4,316,619       (446,160)       4.5%       (72,930,998)       (66,994,749)       (6,994,749)         5,83,826       20,070       5.2%       15,783,415       14,829,936         405,341       (175,956)       -43.4%       16,336,709       15,661,211         607,581       (25,876)       -43.4%       24,4251       366,000         25,338       (25,338)       -100,0%       54,28       55,475,109         1
596,705       (701,606)       -117.6%       2,874,738       3,904,866       (66,99913         602,060       (205,636)       -342%       3,291,551       3,939,913         23,993       (23,993)       -100 0%       42,276       157,010         (1,288,568)       964,309       -74 8%       (3,692,871)       (8,432,459)         (1,288,568)       964,309       -74 8%       (3,692,871)       (8,432,459)         (1,288,568)       450,258       45%       74,146,908       66,994,749         (9,913,159)       (446,160)       45%       72,930,998)       (66,994,749)       (6         (9,913,159)       (446,160)       45%       (72,930,998)       (66,994,749)       (6         (7,700,381)       (175,956)       43 4%       16,336,709       15,661,211       (607,581       366,000         (9,473)       87 498       923,7%       244,251       366,000       979,000         (3,372)       (50,151)       1487 1%       (53,523)       (130,300)         (3,572)       (50,151)       1487 1%       56,801,382       55,181,037         (8,484,972)       (85,497)       (16,129,616)       (11,813,712)
602,060 (205,636) -342°6 (3,591,551 3,939,913 23,993 (23,993) -100 0°6 42,276 157,010 4316,619 (2218,203) -51.4°6 (3,602,871) (8,432,459) 4316,619 (2218,203) -51.4°6 24,548,169 30,370,699 (6,994,749) 9,913,159 (446,160) 45% (72,930,998) (66,994,749) (6,991,749) (6,9
13,993         (23,993)         -100 0%         42,276         157,010           (1,288,568)         964,309         -74 8%         (3,692,871)         (8,432,459)         (4,45,169)           4,316,619         (2,218,203)         -51,4%         24,548,169         30,370,699         (6,994,749)           9,913,159         (446,160)         4.5%         74,146,908         66,994,749         (6,994,749)           10,913,159         (446,160)         4.5%         (72,930,998)         (66,994,749)         (6,994,749)           10,913,159         (446,160)         4.5%         (72,930,998)         (66,994,749)         (6,994,749)           10,933,826         20,070         5.2%         15,783,415         14,829,936           405,341         (175,956)         43.4%         16,336,709         15,661,211           607,581         (253,876)         43.4%         24,487,795         23,475,190           9,473         87,498         923,7%         244,251         366,000           25,338         (100,0%         53,523         (130,300)           (3,72)         (50,151)         1487,1%         86,801,382         55,181,037           (8,484,972)         (853,497)         10,0%         56,801,382 <t< td=""></t<>
(1,288,568) 964,309 -74,8% (3,692,871) (8,432,459) (4316,619 (12.218,203) -51,4% 24,548,169 30,370,699 (5,994,749) (446,160) 4.5% (72,930,998) (66,994,749) (6,913,159) (446,160) 4.5% (72,930,998) (66,994,749) (6,913,159) (446,160) 4.5% (72,930,998) (66,994,749) (6,913,159) (435,341 (175,956) -43,4% 16,136,709 15,661,211 (607,581 (263,876) -43,4% 16,136,709 15,661,211 (607,581 (263,876) -43,4% 16,136,709 15,661,211 (3,372) (30,151) 1487,1% (53,323) (130,300) (3,372) (30,151) 1487,1% (53,523) (130,300) (3,372) (853,497) 10,1% (8,484,972) (853,497) 10,1% (16,129,616) (11,813,712)
4.316,619         (2.218,203)         -51.4%         24,548,169         30,370,699         (6,994,749)           9,913,159         (446,160)         4.5%         74,146,908         (66,994,749)         (6,994,749)           1         (9,913,159)         (446,160)         4.5%         (72,930,998)         (66,994,749)         (6,994,749)           2         (383,826         20,070         5.2%         15,783,415         14,829,936           405,341         (175,956)         43.4%         16,336,709         15,661,211           607,581         (263,876)         43.4%         16,336,709         15,661,211           9,473         87,498         923,7%         244,251         366,000           25,338         (25,338)         -100.0%         53,523         (130,300)           (3,372)         (50,151)         1487 1%         (53,523)         (130,300)           (3,44,972)         (853,497)         10.0%         56,801,382         55,181,037           (8,484,972)         (853,497)         10.1%         (16,129,616)         (11,813,712)
9,913,159 450,258 45% 74,146,908 66,994,749 (6,9913,159) (446,160) 45% (72,930,998) (66,994,749) (6,9913,159) (446,160) 45% (72,930,998) (66,994,749) (6,994,749) (6,9913,159) (125,341 (175,956) 43 4% 16,336,709 15,661,211 (607,581 (263,876) 43 4% 24,251 366,000 25,338 (25,338) -100.0% (53,523) (130,300) (3,372) (50,151) 1487 1% (53,523) (130,300) (3,372) (853,497) 10.1% (8,484,972) (853,497) 10.1% (16,129,616) (11,813,712)
416 0.0% 2.735 416 0.0% 2.735 42,913,159) (446,160) 4.5% (72,930,998) (66,994,749) (6,994,749) (6,994,749) (6,994,749) (6,094,749) (6,094,749) (6,094,749) (175,956) 4.34% (15,336,709) 15,661,211 (607,581 (263,876) 4.34% (16,336,709) 24,487,795 23,475,190 9,473 87,498 923,7% (24,487,795 23,475,190 9,473 (25,338 -100.0% (23,523) (130,300) (13,372) (30,151) 1487 1% (263,497) (33,72) (26,151) 1487 1% (263,497) (10,1337) 428,188 (4107,337) 428,5% (16,129,616) (11,813,712)
2,735  383,826  20,070  5,2%  15,783,415  14,829,936  405,341  (175,956)  -13,4%  16,336,709  15,661,211  607,581  (263,876)  -43,4%  24,487,795  23,475,190  24,473  87,498  923,7%  24,4251  366,000  25,338  (25,338)  -100,0%  (33,72)  (50,151)  1428,188  (407,337)  (853,497)  10,0%  (130,300)  (130,300)  (1813,712)
383,826 20,070 5.2% 15,783,415 14,829,936 405,341 (175,956) -43.4% 16,336,709 15,661,211 607,881 (263,876) -43.4% 24,487,795 23,475,190 9,473 87,498 923.7% 244,251 366,000 25,338 (25,338) -100.0% (33,523) (130,300) (3,372) (50,151) 1487 1% (53,523) (130,300)  1,428,188 (407,337) -28.5% 56,801,382 55,181,037
383,826 20,070 5.2% 15,783,415 14,829,936 405,341 (175,956) +3.4% 16,336,709 15,661,211 607,581 (263,876) -43.4% 24,487,795 23,475,190 9,473 87,498 923,7% 244,251 366,000 25,338 (25,338) -100.0% (53,523) (130,300) (3,372) (50,151) 1487 1% (53,523) (130,300)  1,428,188 (407,337) -28.5% 56,801,382 55,181,037
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1428,188 (407,337) -28.5% 56.801,382 55.181,037 (8.484,972) (853,497) 10.1% (16,129,616) (11,813,712)
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# SEWERAGE AND WATER BOARD OF NEW ORLEANS DRAINAGE SYSTEM FUND STATEMENTS OF NET POSITION WITH PRIOR YEAR AND BEGINNING OF YEAR COMPARISONS December 2017

		<	8	O	Q	ы		G	
	Assets	,			Current			Beginning of	
_	Noncurrent assets:	Year	Variance	%	Year	Variance	*	Year	
_	December short and actionions	1,614,206,235	45,760,812	2.8%	1,659,967,047	43,657,148	2.7%	1.616,309,899	_
	Legency, plant and equipment	322.229.714	21,401,235	%99	343,630,949	21,243,424	9.9%	322,387,525	7
	Property, plant, and equipment, net	1,291 976 521	24.359.577	1.9%	1,316,336,098	22,413,724	1.7%	1,293,922,374	3
	Restricted cash, cash equivalents, and investments						700	CCF YEO 7	-
4	Cash and cash equivalents restricted for capital projects	5,682,780	(1,088,970)	%0.0	4,595,810	(7.180,012)	-33 270	774,470,0	
10	Debt service reserve	74,304	476,475	641,3%	550,779	476,475	641.3%	74,304	เก
9	Health insurance reserve	633,272	56.496	8.9%	689,768	(1)	0.0%	689.769	9
7	Total restricted cash, cash equivalents, and investments	6 390 356	(555,999)	-8 7%	5,834,357	(1,804,138)	-23 6%	7,638,495	7
	Designated cash, cash equivalents, and investments	18 677 864	(38,092,51)	264 49%	2.911.728	(15.760.836)	-84 4%	18,672,564	00
20 ¢	Cash and cash equivalents designated for captual projects	1		%0 0	0	ia.	%0'0	.5	6
s	Customer deposits	1 174 148	(47,305)	4.0%	1,126,843	161'6	0.8%	1.117,652	10
3 =	Total designated cash and cash equivalents, and investments	19.846.712	(15.808.141)	-79.7%	4.038.571	(15,751,645)	-1409.4%	19,790,216	11
12	Current assets: Unrestricted and undesignated Cash and cash equivalents	5,313,335	2,603,229	49.0%	7,916,564	3,794,872	92,1%	4.121,692	12
1	Cash and cash equivalents	5,313,335	2,603,229	49.0%	7,916,564	5,194,612	97-170	4,121,072	1
	Accounts receivable:		,	0.0%	,	.00	%0.0	0.2	13
2 :	Customers (net of anowante tot wounting accounts)	8 044 268	2 796 397	34.8%	10,840,665	977,403	%6.6	9,863,262	14
41	I second		+	0.0%		(4)	%0.0		15
2 4	Crante	8,469,067	2,817,214	33.3%	11,286,281	2,713,181	31.6%	8,573,100	16
2	Miscellaneous	570,854	1,461,177	256 0%	2,032,031	1,027,864	102.4%	1,004,167	17
- 00	Due from enterprise fund	(1,620,113)	(13,819,694)	853.0%	(15,439,807)	(14,383,484)	1361.7%	(1,056,323)	Io
19	Inventory of supplies	494,463	960'69	14.0%	563,558	69,095	14 0%	494,463	19
20		(172)	•	%00	(172)	y	0.0%	(172)	70
=	Н	21,271,702	(4.072,582)	-19.1%	17,199,120	(5,801,069)	-25.2%	23,000,189	21
	0	٠	4	%0 0	,		%0 0	1060	22
77		10 400	74	0.0%	10.400	18	%00	10,400	23
2 2	Deposits Total other assets	10,400	*	0.0%	10,400	45	%0.0	10,400	24
25		1339,495,691	3,922,855	0 3%	1,343,418,546	(943,128)	-0.1%	1.344,361,674	25
36	Deferred outflows or resources:  Deferred outflows related to not newsion liability	010,096,9	'n	%0'0	5,634,846	y)	0.0%	5.	26
2 2		236.032	(53.524)	-22.7%	182.508	(53,524)	-22.7%		27
20	TOTAL DEFERRED OUTFLOWS OF RESOURCES	6,596,042	(778,688)	-11.8%	5.817.354	(53.524)	-0 %%	5.6/0,6/0	07
29	TOTAL ASSETS AND TOTAL DEFERRED OUTFLOWS	1,346,091,733	3,144,167	-11.5%	-11.5% 1,349,235,900	(996,652)	7:01	1,350,232,552	29

### SEWERAGE AND WATER BOARD OF NEW ORLEANS DRAINAGE SYSTEM FUND STATEMENTS OF NET POSITION WITH PRIOR YEAR COMPARISONS December 2017

1 60				1 (2)	1 (2)	(13)	17,336,799 380,486 (23,230,027) (5,533,642) 1,661,562 1,657,722 (1,836,052) (271,144) (271,144) 1,212,088	17,336,799 380,486 (25,336,42) (5,533,642) 1,661,562 1,657,722 (1,836,052) (271,144) (271,144) 1,212,088	380,496 380,486 380,486 5333,642) 5333,642) 1,661,562 1,836,052) 1,836,052) 1,212,088 3,446,763	5,799 19,486 16,427) 1,562 7,722 6,052) 6,052 6,763 6,763 7,082	886 2273 4421 722 722 722 722 723 723 723 723 723 723	13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		8 8 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	300 13 1 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	88 88 88 88 88 88 88 88 88 88 88 88 88	888 882 223 223 223 223 223 223 223 223	8 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
106,759,327 454,790 213,536.8841 993,677,233	59,327 54,790 36.884) 77,233 116,899	4,790 6,884) 7,233 6,899 8,114 0,518	327 ,790 884) 233 .899 ,518 ,216	27 990 884) 33 14 14 18 18 18 18	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1 1			388 388 (5.232) (5.532) (1.66 (1.833) (7.727) (7.727) (7.727)	17,336,7 380,4 380,4 1,651,7 1,657,7 1,657,7 1,636,7 1,636,7 1,636,7 1,636,7 1,637,7 1,636,7 1,636,7 1,637,7 1,637,7 1,636,7 1	17,336,79 380,48 380,48 1,661,56 1,657,72 (1,836,02 1,212,03 1,446,77 1,47,00	17,336,799 380,486 1,651,364 1,657,722 (1,836,05 (1,836,05 (1,836,05 (1,836,05 (1,81,15 (1,41,15 (1,41,08 (1,59 (1,59 (1,585,15)	17,336,799 380,486 3,642,623 1,661,563 1,657,723 (1,836,052	17,336,79 380,48 380,48 1,661,56 1,657,72 (1,836,05 (1,836,0	380.48 380.48 380.48 1,651.56 1,657.72 (1,836.05 (1,836.	380.4 380.4 380.4 5.533.6 1,661.5 1,657.7 (1,836.0 1,212.1 (74,1 12.5 (285.2 12.6 12.6 12.6 12.6	17,336,7 380,4 380,4 (5,533,6 1,657,7 (1,836,0 (1,836,0 1,212,0 (1,836,7 3,446,7 3,446,7 3,446,7 1,22 (12,1 11,1 11,1 11,1 11,0 11,0 11,0 11,0	17,336,79 380,48 1,661,56 1,657,72 (1,836,05 (1,836,05 (1,836,05 (74,15 12,108 12,55 12,55 12,03 12,03 12,03 12,03	380,486 380,486 (5,533,642 1,661,562 1,657,722 (1,836,052 (1	17,336,799 380,486 (5,533,642) 1,661,562 1,657,722 (1,836,052) 1,212,088 3,446,763 (74,151) 147,082 12,597 (285,513) 11,100 3,269,902	17,336,799 380,486 (23,250,027) (5,533,642) 1,661,562 1,657,722 (1,836,052) (1,836,052) (1,836,052) (1,84,154) 1,212,088 1,47,082 12,597 (285,513) 1,1100 55,000	17,336,799 380,486 (23,230,027) (5,533,642) 1,661,562 1,657,722 (1,836,052) (21,144) 1,212,088 147,082 12,597 (285,513) 11,100 55,000 55,000	17,336,799 380,486 380,486 (23,250,927) (5,533,642) 1,661,562 1,657,722 (1,836,052) (1,836,052) (1,836,052) (1,836,052) (1,836,090) (1,003) (1	17,336,799 380,486 (123,258,027) (5,533,642) 1,661,562 1,657,722 (1,836,052) 1,212,088 3,446,763 12,597 (285,513) 11,100 3,269,902 3,269,902 3,324,902 4,536,090
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	(-1	(1 m 2	C W C		2 8 2 2	(3 3 3	2 8 2 3 15	C ( C ) C							(5.8 3.8 3.8 (5.8 8.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(5 3 6 7 7 13 13 6	(5 3 6 6 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(5 3 3 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(5)	(5)	(5 3 3 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(5)	(8, 3, 6, 12, 13, 6, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	(2 3 1)	
	2,922,259	2,922,259 3,658,163 (1,836,052)	2,922,259 3,658,163 (1,836,052)	2,922,259 3,658,163 (1,836,052) 2,145,833	2,922,259 1 3,658,163 1 (1,836,052) -1 2,145,833	2,922,259 1 3,658,163 1 (1,836,052) -1 2,145,833 (271,144) -	2,922,259 3,628,163 (1,836,052) - 2,145,833 (271,144) 6,305,768	2,922,259 3,638,163 (1,836,052) - 2,145,833 (271,144) 6,305,768 3,868,124	2,922,259 3,658,163 (1,836,052) - 2,145,833 (271,144) 6,305,768 3,868,124 (5,819,782) -	2,922,259 3,658,163 (1,836,052) - 2,145,833 (271,144) 6,305,768 3,868,124 (5,819,782) - 147,082	2,922,259 3,658,163 (1,836,052) - 2,145,833 (271,144) 6,305,768 3,868,124 (5,819,782) - 147,082 13,868	2,922,259 3,658,163 (1,836,052) - 2,145,833 (271,144) 6,305,768 3,868,124 (5,819,782) - 147,082 13,868 (285,512) -	2,922,259 3,628,163 (1,836,052) 2,145,833 (271,144) 6,305,768 (5,819,782) 147,082 13,868,124 (285,512) 1,809,576	2,922,259 3,628,163 (1,836,052) 2,145,833 (271,144) 6,305,768 (5,819,782) 147,082 13,868,124 (5,819,782) 147,082 13,868 (285,512) 1,809,576 12,023	2,922,259 3,628,163 (1,836,052) 2,145,833 (271,144) 6,305,768 1,808,124 1,809,576 1,809,576 1,2023	3,628,163 (1,836,052) 2,145,833 (271,144) 6305,768 (5,819,782) 147,082 13,868,124 (5,819,782) 147,082 13,868 (285,512) 1,809,576 12,023	3,628,163 (1,836,052) 2,145,833 (271,144) 6305,768 (5,819,782) 147,082 113,868 (285,512) 1,809,576 112,023 14,703	2,922,259 3,658,163 (1,836,022) -11 (2,145,833 (271,144) 6305,768 147,062 13,868,124 147,062 13,868 13,809,576 12,023 14,703 16,239,828) -1 1,809,576 12,023	2,922,259 111 3,628,163 171 (1,836,052) -115 (2,145,833 1 (271,144) -2 (3,819,782) -99 (4,819,782) -99 (5,819,782) -9 (2,85,512) -1 13,868 33 (2,85,512) -1 1,809,576 4 12,023 16 (2,339,782) -9 (2,339,782) -1 (2,339,782) -1	2,922,259 111 3,658,163 171 (1,836,052) -115 (2,145,833 1271,144) -9 (5,819,782) -99 147,082 1788 (2,819,782) -99 147,082 1788 (2,85,512) -1 1,809,576 4 12,023 18 (235,512) -1 (235,512) -1 (235,512) -1 (235,512) -1 (235,512) -1 (235,512) -1	2,922,259 3,658,163 (1,836,052) 2,145,833 (271,144) 6,305,768 147,082 147,082 13,868,124 13,868 13,868 13,868 13,809,576 12,023 14,703 14,703 16,703	2,922,259 111 3,628,163 171 (1,836,052) -119 (2,145,833 1768 7768 7768 7768 7768 7768 7768 7768	2,922,259 1 3,658,163 [1,836,052] -1 2,145,833 [271,144] 6,305,768 [6,305,768 [7,88,124 2] 147,082 [1,868,124 2] 18,868 [1,243,512] 18,809,576 [1,2023 1,809,576 2] 18,009,576 [1,2023 2] 14,793	3,658,163 (1,836,052) -1 2,145,833 (271,144) 6,305,768 (5,819,782) -9 (5,819,782) -9 (5,819,782) -9 (5,819,782) -9 (2,85,512) 13,868 (285,512) 14,703 14,703 (236,528) (236,528) (236,528) (236,528) (236,628)	2,922,259 3,628,163 (1,836,052) - 2,145,833 (271,144) 6,305,768 (5,819,782) - 14,708 12,023 14,703 14,703 14,703 114,7

# SEWERAGE AND WATER BOARD OF NEW ORLEANS DRAINAGE SYSTEM FUND STATEMENTS OF CASH FLOWS December 2017

	1 2 8 4	vo.	9	L 0	9 6	10	11	12	. 4 1	15	16	18	19	20	21	22	23	24	25	36	27.2	97	29
Q %	0.0% 166.2% -79.1% -78.8%	19.6%	8.7%	0.0%	8.7%	168.8%	0.0%	%0.0	%0.0 0.0%	0.0%	-84.7%	242.7%	%U U	0.0%	164.0%	164.0%	-202.0%	-8.9%	-62.8%	140.80%	%6.88-	-78.3%	-62.8%
C YTD Variance	(18,082,764) 13,484,356 (697,420)	(5.295.827)	4,430,910	8.0	4,430,910	(27,052,031)	(1,949,147)	1	, ,	(53,523)	418,656	(26.327.598)		•	128.417	128,417	(27,064,098)	(3.081.673)	(30,145,771)	4 685 220	(32,500,299)	(2,350,702)	(30.145.771)
B YTD Prior Year	(10,877,663) (17,039,510) 885,465	(27,031,708)	51,202,340	≆ n	51.202.340	(16.026.303)	•	ı		•	(494,078) 5.671.628	(10.848,753)	1	1	78,305	78.305	13,400,184	34.632.075	48.032.259	2 378 370	36,538,870	8.165.060	48,032,259
A YTD Current Year	(28,960,427) (3,555,154) 188.045	(32,327,535)	55,633,250		55,633,250	(43 078.334)	(1,949,147)	ı	. ,	(53,523)	(75,422) 7.980.075	(37.176.351)	*	•	206,722	206.722	(13,663,914)	31.550.402	17.886,488	8 012 550	4,038,571	5.834.338	17.886.488
					1.1										117	17		1077	- 11				550
	Cash flows from operating activities  Cash received from customers  Cash payments to suppliers for goods and services  Cash payments to employees for services  Other revenue	Net cash used in operating activities	Cash flows from noncapital financing activities Proceeds from property taxes	7 Proceeds from federal operating and maintenance grants	Cash received paid to an other government Net cash provided by noncapital financing activities	Cash flows from capital and related financing activities  Acquisition and construction of canital assets			13 Fayments for bond issuance costs 14 Payment to refunded bond escrow agent	Interest paid on bonds payable	16 Proceeds from construction fund, net 17 Canital contributed by develoners and federal grants		Cash flows from investing activities  10 Paymonte for nurshage of investments			Net cash provided by investing activities	23 Net increase (decrease) in cash	24 Cash at the beginning of the year	25 Cash at the end of the period	Reconciliation of cash and restricted cash		Kestrict	29 Total cash

## SEWERAGE AND WATER BOARD OF NEW ORLEANS DRAINAGE SYSTEM FUND STATEMENTS OF CASH FLOWS December 2017

	4	£	(	6	
	YTD	ATV	YTD	<b>a</b>	
	Current Year	Prior Year	Variance	%	
Reconciliation of operating loss to net cash used in onerating activities is as follows:					
Operating loss	(72,930,993)	(28,178,890)	(44,752,103)	158.8%	_
Adjustments to reconcile net operating loss to net cash					
used in operating activities:					
Depreciation	21,243,422	10,041,805	11,201,617	111.5%	7
Provision for claims	848,022	290,405	557,617	192 0%	m
Provision for (revision) doubtful accounts	1.5	/#	1.8	%0.0	4
Amortization	18)	60	5	%0.0	N)
Change in operating assets and liabilities;					
(Increase) decrease in customer and other receivables	18	(4)	35	%0.0	9
Increase in inventory	(69,095)	39	(69,095)	%0.0	7
Increase (decrease) in deferred outflows of resources					
related to net pension liability		SE.	00	%0.0	90
Increase (decrease) in prepaid expenses					
and other receivables	13,355,621	(6,763,850)	20,119,471	-297.5%	6
Decrease in net pension asset	E	*	8:	%0.0	10
Increase (decrease) in accounts payable	3,014,769	(4,220,801)	7,235,570	-171.4%	11
Increase (decrease) in accrued salaries, due to					
pension and accrued vacation and sick pay	(271,645)	(91,387)	(180,258)	197 2%	12
Increase in net other postretirement benefits liability	1,657,723	1,054,913	602,810	57.1%	13
Increase (decrease) in net pension obligation	1,661,561	1,057,233	604,328	57.2%	14
Decrease in other liabilities	(836,920)	(221,135)	(615,785)	278.5%	15
Increase (decrease) in deferred inflows of resources					
related to net pension liability		9		0.0%	16
Net cash used in operating activities	(32.327,535)	(27,031,708)	(5.295.827)	19.6%	17
-			, , , , , , , , , , , , , , , , , , , ,		

2 6 4 5

### Sewerage and Water Board of New Orleans Total System Unrestricted Cash and Cash Equivalents in Days of O&M Expenses at Month End December 2017

EUM Attribute: Financial Viability

Description: Establish and maintain an effective balance between long-term debt, assets values, operations and maintenance expenditures, and operating revenues.

Constituency: Suppliers and Bondholders

Objective: Provide adequate cash to pay invoices on a timely basis

Goal: Cash balance of at least 180 days of O&M expenses.

Currently Meeting Goal: Yes

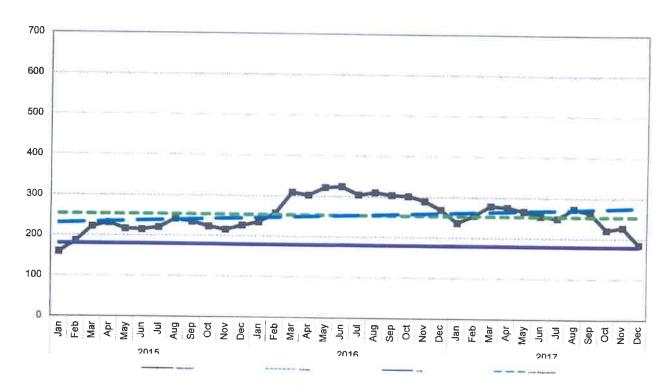
Process Operating Within Control Limits: Yes

Trend: Unfavorable

**Analysis** 

Monthly cash balances have remained stable except for repayment of previous inter-system loans. Note: Reclassification of certain currents assets from restricted to unrestricted in October 2013 resulted in higher unrestricted balances.

### Plans for Improvement



					D	ata Table						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aua	Sep	Oct	Nov	Dec
2015	158.8	185.6	221.5	230.9	216.1	214.6	220.1	241.7	234.7	223.1	215.7	226.1
2016	234.7	257.4	309.3	302.7	321.7	324.2	304.3	310.6	304.1	302.0	289.7	269.0
2017	236.4	255.0	279.2	275.9	266.7	254.8	249.5	273.7	263.4	221.0	203.7	185.1
N.EDWA	RDS		12-17-	Total Sys	tem Unre	stricted Ca	ash in Day	/sReport I	Page	- ''-		6/2018

### Sewerage and Water Board of New Orleans Water System Unrestricted Cash and Cash Equivalents in Days of O&M Expenses at Month End December 2017

EUM Attribute: Financial Viability

Description: Establish and maintain an effective balance between long-term debt, assets values, operations and maintenance expenditures, and operating revenues.

Constituency: Suppliers and Bondholders

Objective: Provide adequate cash to pay invoices on a timely basis

Goal: Cash balance of at least 180 days of O&M expenses.

Currently Meeting Goal: No

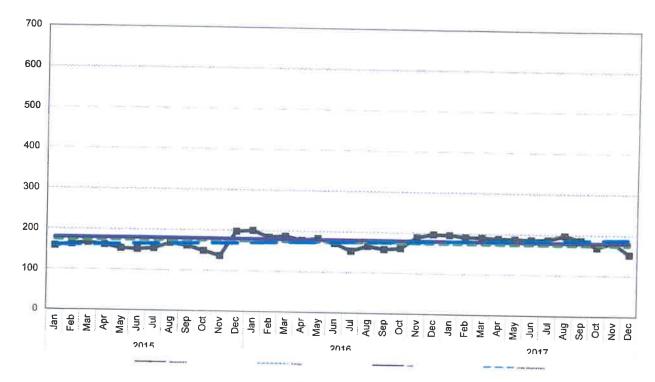
Process Operating
Within Control Limits:
Yes

Trend: Unfavorable

### **Analysis**

Monthly cash balances have remained stable except for repayment of previous inter-system loans. Note: Reclassification of certain current assets from restricted to unrestricted in October 2013 resulted in higher unrestricted balances.

### Plans for Improvement



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov 2015 158.9 163.6 167.0 162.1 153.4 151.6 154.2 167.7 161.0 149.5							ata Table	Da					
2016 200.6 184.5 187.7 178.0 183.0 171.5 153.5 165.9 158.9 162.2 189.3 2017 196.2 191.3 190.9 188.7 188.1 187.2 187.8 198.2 187.2 168.8 182.7 N.EDWARDS	Dec 197.9 197.3 153.0 6/2018	137.4 189.3 182.7	149.5 162.2	161.2 158.9 187.2	167.7 165.9 198.2	154.2 153.5 187.8	151.6 171.5 187.2	153.4 183.0 188.1	162.1 178.0 188.7	167.0 187.7 190.9	163.6 184.5	158.9 200.6 196.2	2016 2017

### Sewerage and Water Board of New Orleans Sewer System Unrestricted Cash and Cash Equivalents in Days of O&M Expenses at Month End December 2017

EUM Attribute: Financial Viability

Description: Establish and maintain an effective balance between long-term debt, assets values, operations and maintenance expenditures, and operating revenues.

Constituency: Suppliers and Bondholders

Objective: Provide adequate cash to pay invoices on a timely basis

Goal: Cash balance of at least 180 days of O&M expenses.

Currently Meeting Goal: Yes

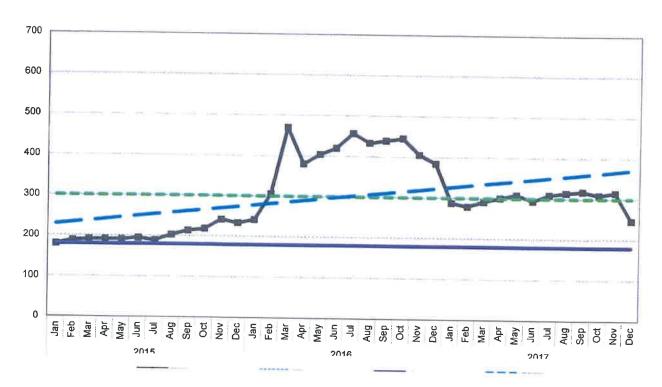
Process Operating
Within Control Limits:
Yes

Trend: Unfavorable

**Analysis** 

Monthly cash balances have remained stable except for repayment of previous inter-system loans. Note: Reclassification of certain current assets from restricted to unrestricted in October 2013 resulted in higher unrestricted balances.

### Plans for Improvement



					Da	ta Table						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	180.0	188.6	191.4	191.4	191.1	194.5	188.9	202.9	213.7	218.3	241.3	233.0
2016	241.4	305.3	469.9	380.4	403.7	419.5	456.4	433.1	438.7	444.9	405.1	383.9
2017	287.5	279.1	291.3	300.4	308.7	294.4	309.3	314.6	317.9	309.3	315.3	246.7
N.EDWAF	RDS		12-17- S	Sewer Sys	tem Unre	stricted Ca	ash in Day	/sReport F		223.0		6/2018

### Sewerage and Water Board of New Orleans Drainage System Unrestricted Cash and Cash Equivalents in Days of O&M Expenses at Month End December 2017

**EUM Attribute:** Financial Viability

Description: Establish and maintain an effective balance between long-term debt, assets values, operations and maintenance expenditures, and operating revenues.

Constituency: Suppliers and Bondholders Objective: Provide adequate cash to pay invoices on a timely basis

Goal: Cash balance of at least 180 days of O&M expenses.

Currently Meeting Goal: Yes

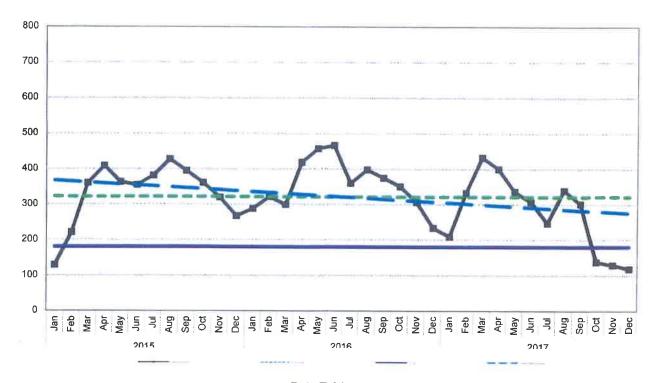
Process Operating
Within Control Limits:
Yes

Trend: Unfavorable

Analysis

Monthly cash balances typically increase during the first quarter from property tax collections and then decrease for the remainder of the year. The long-term goal will not be met until a new revenue stream for the drainage system is created and implemented.

### Plans for Improvement



					Da	ita Table						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	129.2	220.6	360.8	409.2	363.2	355.3	381.5	428.2	395.7	361.6	320.2	267.0
2016	287.9	321.6	299.4	419.2	457.5	466.6	360.3	398.3	375.3	351.2	306.8	233.7
2017	209.5	333.3	432.7	400.8	337.1	307.5	247.6	340.3	302.4	139.2	130.2	119.1
N.EDWA	RDS		12-17- Dr	ainage Sy	stem Unr	estricted (	Cash in Da	aysReport	t Page		4/0	6/2018

### Sewerage and Water Board of New Orleans Comparative Variance Indicators for Financial Results Through December 2017

Statement of Revenues, Expenses, and Changes in Net Position with Prior Year Comparisons	Total	Water	Sewer	Drainage
Revenues		130		
Operating Expenses				
Non-Operating Revenues and Expenses				
Income before Capital Contributions				
	<b>国际的</b>	THE PER		
Statement of Revenues, Expenses, and Changes in Net Position with Budget Comparisons	Total	Water	Sewer	Drainage
Revenues				
Operating Expenses				
Non-Operating Revenues and Expenses				
Income before Capital Contributions				
Statement of Net Position with Prior Year Comparisons	Total	Water	Sewer	Drainage
Plant, Property, and Equipment				
Restricted Current Assets				
Unrestricted Designated Current Assets				
Unrestricted Undesignated Current Assets				
Net Position				Y The
Long-Term Liabilities				
Current Liabilities from Unrestricted Assets				
Current Liabilities from Restricted Assets			16.	
Statement of Cash Flows with Prior Year Comparisons	Total	Water	Sewer	Drainage
Operating Activities				
Non-Capital Financing Activities				
Capital and Related Financing Activities				
Investing Activities				



### SEWERAGE AND WATER BOARD OF NEW ORLEANS

April 9, 2018

Strategy Committee Sewerage and Water Board of New Orleans New Orleans, Louisiana

Subject: Monthly Human Resources Activity Report for the Period March 1 - March 31, 2018

Dear Directors:

Please find below an account of various Board human resources activities for the period March 1- March 31, 2018. This monthly snapshot is presented to keep you abreast of the progress and challenges related to the Board's ability to hire and retain the best qualified candidates.

### **Human Resources Activities**

Beginning Vacant Positions: 589

\_2 (Two positions were deleted from the 2018 Budget effective 3/13/18)

587

**Ending Vacant Positions: 581** 

New Hires: 23

Resignations: 4

Retirement: 2

Retirement Eligible (Not in DROP): 117

DROP Program Participants: 119
Beginning Balance: 123
New Member(s): 0
Member(s) Removed: 4

Promotions: 12

Disciplinary Actions: 15

• Rehabilitations: 1

• Reprimands: 5

• Suspensions: 2

• Terminations: 7

Regards,

Sharon Judkins

Deputy Director-Administration

Attachments:

Monthly Activity Report Resignation Analysis

Retirement Eligible

**DROP Summary** 

		Walter Wollfilly Activity Report	
DATE	ACTION	JOB TITLE	REASON
New Hires:			
3/26/2018		Accountant i	
3/26/2018		Environment Enforcement Technician I	
3/5/2018		Environment Enforcement Technician II	
3/12/2018		Laborer	
3/19/2018		Laborer	
3/12/2018		Management Development Specialist II	
3/5/2018		Networks Maintenance Technician I	
3/5/2018		Networks Maintenance Technician I	
3/5/2018		Networks Maintenance Technician I	
3/12/2018		Networks Maintenance Technician I	
3/19/2018		Networks Maintenance Technician I	
3/5/2018		Networks Senior Maintenance Technician II	
3/5/2018		Office Assistant Trainee	
3/5/2018		Office Assistant Trainee	
3/12/2018		Office Assistant Trainee	
3/12/2018		Paralegal	
3/5/2018		Project Manager	
3/5/2018		Senior Special Agent	
3/26/2018		Utilities Plant Worker	
3/5/2018		Water Service Inspector I	
3/19/2018		Water Service Inspector I	
3/19/2018		Water Service Inspector I	
3/19/2018		Water Service Inspector I	
Total	23		
Resignations:			
3/5/2018		Engineering Intern II	Accepted Employment Outside of Civil Service
3/12/2018		Water Service Inspector I	Medical
3/5/2018		Office Assistant Trainee	Other Reasons
3/5/2018		Senior Project Manager	Other Reasons
Total	4		
Retirements:			
3/10/2018		Principal Engineer	
3/21/2018		Painting Supervisor	
Total	2		
DROP:			
Started DROP			
Total	0		
Ended DROP			

3/1/2018	Networks Senior Maintenance Technician II	
3/1/2018	Pumping Stations Supervisor Assistant	
Total 4		
Promotions:		
3/19/2018	Accountant I	
3/26/2018	Construction Project Manager	
3/5/2018	Laboratory Technician III	
3/5/2018	Laboratory Technician III	
3/5/2018	Office Assistant I	
3/5/2018	Office Assistant III	
3/26/2018	Office Assistant IV	
3/19/2018	Office Support Specialist	
3/26/2018	Networks Maintenance Technician I	
3/12/2018	Networks Senior Maintenance Technician I	
3/5/2018	Steam Plant Engineer II	
3/5/2018	Steam Plant Engineer II	
Total 12		
Disciplinary Actions:		
3/16/2018 Emergency Suspension	pension Laborer	Failed Substance Abuse Screening
3/29/2018 Rehabilitation	Laborer	Failed Substance Abuse Screening
3/12/2018 Reprimand	Laborer	No Call, No Report
3/15/2018 Reprimand	Management Development Specialist I	Violation of Attendance Policy
3/28/2018 Reprimand	Office Assistant III	Violation of Attendance Policy
3/22/2018 Reprimand	Pumping Plant Operator	Violation of Attendance Policy
3/5/2018 Reprimand	Utilities Maintenance Assistant Technician II	Failed Probationary Period
3/20/2018 Suspension	Laborer	Preventable Accident
3/5/2018 Termination	Documentation Support Specialist II (Requisition & Invoice Specialist)	Services No Longer Needed
3/9/2018 Termination	Laborer	Failed Probationary Period
3/15/2018 Termination	Laborer	Failed Probationary Period
3/22/2018 Termination	Networks Maintenance Technician I	Failed Probationary Period
3/16/2018 Termination	Office Assistant Trainee	Job Abandonment
3/9/2018 Termination	Utility Trade Specialist I	Failed Probationary Period
3/22/2018 Termination	Water Service Inspector I	Failed Probationary Period

### **Human Resources Hiring Activities**

### January 2018 - December 2018

Month	Year	New Hires	Resignations	Terminations	Ended DROP	Retirement
January	2018	19	6	2	1	0
February	2018	17	3	3	1	0
March	2018	23	4	7	4	2
April	2018					
May	2018					
June	2018					
July	2018					
August	2018					
September	2018					
October	2018					
November	2018					
December	2018					
Totals		59	13	12	6	2

59 New Hires 56% Left (33 Employees)

### **Human Resources Hiring Activities**

### January 2017 - December 2017

Month	Year	New Hires	Resignations	Terminations	Ended DROP	Retirement
January	2017	24	6	7	0	3
February	2017	14	8	2	4	1
March	2017	31	8	12	1	0
April	2017	31	6	5	7	3
May	2017	27	13	7	6	2
June	2017	22	6	9	5	0
July	2017	31	8	5	0	1
August	2017	27	12	10	1	2
September	2017	23	17	9	6	0
October	2017	42	16	10	4	0
November	2017	8	6	2	2	0
December	2017	43	6	4	1	2
Totals		323	112	82	37	14

323 New Hires 76% Left (245 Employees)

### **Hiring Classifications**

### January 2018 - December 2018

Month/Year	City-Wide	SWB	<b>Direct Hire</b>	Unclassified	<b>Total Positions</b>
January 2018	7	7	2	3	19
February 2018	2	5	6	4	17
March 2018	4	15	3	1	23
April 2018					0
May 2018					0
June 2018					0
July 2018					0
August 2018					0
September 2018					0
October 2018					0
November 2018					0
December 2018					0
Total Hires	13	27	11	8	59

City-Wide 22% SWB 46% Direct Hire 19% Unclassified 13%

### **Hiring Classifications**

### January 2017 - December 2017

Month/Year	City-Wide	SWB	Direct Hire	Unclassified	Total Positions
January 2017	5	13	4	2	24
February 2017	8	1	4	1	14
March 2017	3	19	8	1	31
April 2017	6	17	7	1	31
May 2017	3	12	7	5	27
June 2017	2	2	12	6	22
July 2017	10	4	13	4	31
August 2017	5	13	4	5	27
September 2017	3	10	8	2	23
October 2017	7	20	11	4	42
November 2017	2	2	2	2	8
December 2017	1	33	7	2	43
Total Hires	55	146	87	35	323

City-Wide 17%
SWB 45%
Direct Hire 27%
Unclassified 11%

### Hiring Categories for 2018

Position Type	Number of Positions	Percentage
Administrative/Professional:	22	37%
Operational/Technical:	37	63%
Total Hires for 2018:	59	100%

Administrative/Professional	
Position	Number of Positions
Accountant I	1
Auditor	1
Documentation Support Specialist II (Requisition & Invoice Specialist ) (U)	3
Documentation Support Specialist III (Reconciliation & Closeout Specialist) (U)	1
Grants and Reporting Specialist (U)	1
Interim Executive Director (U)	1
Management Development Analyst I	2
Management Development Specialist II	1
Office Assistant IV	1
Office Assistant Trainee	6
Paralegal	1
Project Manager (U)	1
Senior Special Agent	1
SWB Analyst (Reconciliation & Reimbursement Specialist) (U)	1
Operational/Technical	
Position	Number of Positions
Auto Mechanic	1
Emergency Management Services Coordinator	1
Environtment Enforcement Technician I	1
Environtment Enforcement Technician II	1
Field Service Supervisor	1
Laborer	7
Networks Maintenance Technician I	7
Networks Senior Maintenance Technician II	1
Public Works Superintendent	1
Senior Principal Engineer	1
Utilities Maintenance Trainee II	11
Utilities Plant Worker	1
Utilities Trade Specialist I	1
Water Service Inspector I	12

# Resignations for March 2018

Date	Reason	Job Title
3/5/2018	Accepted Employment Outside of Civil Service	Engineering Intern II
3/12/2018	Medical	Water Service Inspector I
3/5/2018	Other Reasons	Office Assistant Trainee
3/5/2018	Other Reasons	Senior Project Manager

Reason	# of Resignations	% of Total Resignations
Accepted Employment Outside of City Civil Service	1	25%
Avoided Disciplinary Action		
Continued Education		
Left City (Relocated)		
Medical	1	25%
Other Reasons	2	20%
Returned to School		
Transferred and/or Promoted to the City		
Unknown		
Work-Related (Environment)		
Total	4	100%

RETIREMENT ELIGIBLE		8118
Accountant 1	1	
Accountant 2	1	
Accountant 3	2	
Administrative Support Supervisor 1	1	
Administrative Support Supervisor 2	3	
Administrative Support Supervisor 4 Automotive Maintenance Technician	2	
	1	
Buyer 3	2	
Chief Accountant	1	
Drainage and Sewerage Pumping Supervisor	1	
Duplicating Room Supervisor	î	
Engineering Specialist	2	
Engineering Technician Environmental Enforcement Technician 2	2	
	1	
Field Service Supervisor	ī	
Fleet Services Manager	1	
Maintenance Engineer	1	
Management Development Specialist 2	1	
Management Development Supervisor	1	
Networks Maintenance Technician 1	1	
Networks Master Maintenance Technician 2	1	
Networks Planner/Scheduler	1	
Networks Quality Assurance and Safety Inspector	3	
Networks Senior Maintenance Technician 1	3	
Networks Senior Maintenance Technician 2	1	
Networks Zone Manager 1		
Office Assistant 2	3 2	
Office Assistant 3		
Office Assistant 4	1	
Office Assistant Trainee	1 10	
Office Support Specialist		
Plumbing Inspector 2	2	
Power Dispatcher 2	5	
Principal Office Support Specialist	1	
Public Works Maintenance Worker 1		
Public Works Supervisor 1	1 5	
Pumping and Power Plant Operator		
Pumping Plant Operator	5 1	
Pumping Stations Supervisor	3	
Pumping Stations Supervisor Assistant	3	
Senior Office Support Specialist	5	
Steam Plant Engineer 2	1	
Steam Plant Engineer 4	2	
Utilities Maintenance Technician 2		
Utilities Maintenance Technician 3	2	
Utilities Master Maintenance Specialist 2	1 2	
Utilities Master Maintenance Supervisor	2	
Utilities Plant Worker		
Utilities Senior Services Manager	3	
Utilities Services Administrator	4	
Utilities Services Manager	2	
Utility Meter Services Manager	1	
Warehouse & Supplies Manager	1	
Water Chemist 3	1	
Water Purification Operator 1	2	
Water Purification Operator 2	4	
Water Purification Operator 3	2	
Water Purification Operator 4	1	

			TIME	AVG TIME	TOTAL
			REMAINING	REMAINING	EMPLOYEES ON DROP
TITLE	START	END	(yrs)	(YRS)	ON DROP 119
	. / . /	. / . /	0.00	2.81	119
UTIL MAINT MASTER SPECIALIST 2	4/1/2013	4/1/2018	0.00		
OFFICE SUPPORT SPECIALIST	5/1/2013	5/1/2018	80.0		
OFFICE SUPPORT SPECIALIST	5/1/2013	5/1/2018	0.08		
NET SENIOR MAINTENANCE TECH 2	5/31/2013		0.17		
NET MASTER MAINTENANCE TECH 2	6/1/2013	6/1/2018	0.17		
OFFICE ASSISTANT 3	6/3/2013	6/3/2018	0.18		
PUMPING STATIONS SUPV	7/31/2013		0.33		
OFFICE ASSISTANT 3	8/1/2013	8/1/2018	0.34		
OFFICE ASSISTANT 3	8/1/2013		0.34		
NET MASTER MAINTENANCE TECH 2	8/12/2013	8/12/2018	0.37		
ENGINEERING SPECIALIST	10/1/2013	10/1/2018	0.50		
NET QUALITY ASSUR & SFTY INSPC	11/1/2013	11/1/2018	0.59		
FLEET SERVICES SUPERVISOR	11/1/2013		0.59		
MANAGEMNT DEVELOPMNT SPECLST 2	12/1/2013		0.67		
STEAM PLANT ENGINEER 2	12/2/2013	12/2/2018	0.67		
LEGAL ADMINISTRATIVE ASSISTANT	1/3/2014	1/3/2019	0.76		
NETWORKS MAINTENANCE TECH 2	1/27/2014	1/27/2019	0.83		
PUMPING AND POWER PLANT OPR	2/1/2014	2/1/2019	0.84		
NET MASTER MAINTENANCE TECH 2	2/13/2014	2/13/2019	0.87		
PUMPING AND POWER PLANT OPR	3/1/2014	3/1/2019	0.92		
PUMPING STATIONS SUPV ASST	3/1/2014	3/1/2019	0.92		
		<b>Employees w</b>	ithin 1 year:	21	
WATER PURIFICATION OPERATOR 3	6/4/2014	6/4/2019	1.18		
EQUIPMENT OPERATOR 2	9/1/2014	9/1/2019	1.42		
OFFICE ASSISTANT 3	10/1/2014	10/1/2019	1.50		
NETWORKS MAINTENANCE TECH 1	10/30/2014	10/30/2019	1.58		
NET SENIOR MAINTENANCE TECH 1	10/31/2014	10/31/2019	1.59		
UTILITY SENIOR SERVICES MGR	10/31/2014	10/31/2019	1.59		
MANAGEMNT DEVELOPMNT SPECLST 2	11/1/2014	11/1/2019	1.59		
PUMPING PLANT OPERATOR	11/1/2014	11/1/2019	1.59		
AUTOMOTIVE MAINT, TECHNICIAN	12/1/2014	12/1/2019	1.67		
ADMIN. SUPPORT SUPERVISOR 4	12/15/2014	12/15/2019	1.71		
NET SENIOR MAINTENANCE TECH 2	12/19/2014	12/19/2019	1.72		
PUMPING STATIONS SUPV ASST	12/31/2014	12/31/2019	1.75		
NET MASTER MAINTENANCE TECH 1		12/31/2019	1.75		
STEAM PLANT ENGINEER 2	1/24/2015	1/24/2020	1.82		
PUMPING STATIONS SUPV ASST	2/1/2015	2/1/2020	1.84		
UTILITY SERVICES ADMINISTRATOR	3/1/2015		1.92		
FIELD SERVICE SUPERVISOR	3/15/2015		1.96		
SR. OFFICE SUPPORT SPECIALIST	3/28/2015		1.99		
STEAM PLANT ENGINEER 1	3/31/2015		2.00		
ALEMALI PURT FIAGRATERY A	-, - ,		ithin 2 years:	19	
			•		

PUMPING AND POWER PLANT OPR	8/1/2015	8/1/2020	2.34
FLEET SERVICES MANAGER	8/7/2015	8/7/2020	2.36
STEAM PLANT ENGINEER 4	9/22/2015	9/22/2020	2.48
POWER DISPATCHER 4	9/22/2015	9/22/2020	2.48
NET SENIOR MAINTENANCE TECH 1	11/1/2015	11/1/2020	2.59
FIELD SERVICE SUPERVISOR	11/1/2015	11/1/2020	2.59
NET SENIOR MAINTENANCE TECH 1	11/1/2015	11/1/2020	2.59
ADMIN. SUPPORT SUPERVISOR 3	11/26/2015		2.66
CHIEF ACCOUNTANT	11/28/2015	11/28/2020	2.67
PUBLIC WORKS SUPERVISOR 2	12/2/2015	12/2/2020	2.68
NET SENIOR MAINTENANCE TECH 2	12/30/2015	12/30/2020	2.75
NET MASTER MAINTENANCE TECH 1	12/30/2015	12/30/2020	2.75
PRIN OFFICE SUPPORT SPECIALIST	1/1/2016	1/1/2021	2.76
AUTOMOTIVE SERVICES SUPERVISOR	1/8/2016	1/8/2021	2.78
UTIL MAINT MASTER SUPERVISOR	1/8/2016		2.78
UTIL MAINT MASTER SUPERVISOR	1/8/2016	1/8/2021	2.78
UTIL MAINT MASTER SUPERVISOR	1/11/2016	1/11/2021	2.79
NET SENIOR MAINTENANCE TECH 1	2/1/2016	2/1/2021	2.84
NET SENIOR MAINTENANCE TECH 2	2/29/2016	3/1/2021	2.92
		<b>Employees wit</b>	
NET MASTER MAINTENANCE TECH 1	4/1/2016	4/1/2021	3.01
POWER DISPATCHER 3	4/1/2016	4/1/2021	3.01
OFFICE ASSISTANT 4	4/1/2016	4/1/2021	3.01
PUBLIC WORKS MAINTENANCE WKR 1	6/1/2016	6/1/2021	3.17
NET SENIOR MAINTENANCE TECH 2	6/1/2016	6/1/2021	3.17
PUBLIC WORKS MAINTENANCE WKR 1	6/4/2016	6/4/2021	3.18
LABORATORY TECHNICIAN 3	7/1/2016	7/1/2021	3.25
PUMPING STATIONS SUPV	8/1/2016	8/1/2021	3.34
PUMPING AND POWER PLANT OPR	8/1/2016	8/1/2021	3.34
UTILITY SERVICES ADMINISTRATOR	9/1/2016	9/1/2021	3.42
ADMIN. SUPPORT SUPERVISOR 4	10/8/2016	10/8/2021	3.53
PUMPING PLANT OPERATOR	11/1/2016	11/1/2021	3.59
NET SENIOR MAINTENANCE TECH 1	11/1/2016	11/1/2021	3.59
PUBLIC WORKS MAINTENANCE WKR 2	11/1/2016	11/1/2021	3.59
ENGINEER INTERN 2	12/1/2016	12/1/2021	3.67
SR. OFFICE SUPPORT SPECIALIST	12/1/2016	12/1/2021	3.67
OFFICE SUPPORT SPECIALIST	12/1/2016	12/1/2021	3.67
NET MASTER MAINTENANCE TECH 1	12/28/2016		3.75
PUMPING AND POWER PLANT OPR	12/31/2016		3.76
SR. OFFICE SUPPORT SPECIALIST	1/2/2017		3.76
WATER PURIFICATION OPERATOR 4	1/2/2017		3.76
PUMPING AND POWER PLANT OPR	1/3/2017		3.76
WATER PURIFICATION OPERATOR 2	1/5/2017		3.77
POWER DISPATCHER 3	1/8/2017		3.78
FIELD SERVICE SUPERVISOR	2/13/2017		3.88
ADMIN. SUPPORT SUPERVISOR 1	2/28/2017		3.92
AUTOMOTIVE SECTION SUPERVISOR	3/1/2017		3.92
ADMIN. SUPPORT SUPERVISOR 4	3/1/2017		3.92
		Employees wi	thin 4 years: 28

OFFICE ASSISTANT 2	4/1/2017	4/1/2022	4.01
ENGINEER	4/1/2017	4/1/2022	4.01
NETWORKS MAINTENANCE TECH 2	4/1/2017	4/1/2022	4.01
ADMIN. SUPPORT SUPERVISOR 4	4/1/2017	4/1/2022	4.01
NETWORKS ZONE MANAGER 1	4/13/2017	4/13/2022	4.04
NET MASTER MAINTENANCE TECH 1	5/1/2017	5/1/2022	4.09
STEAM PLANT ENGINEER 1	6/1/2017	6/1/2022	4.17
NET SENIOR MAINTENANCE TECH 1	6/1/2017	6/1/2022	4.17
NETWORKS MAINTENANCE TECH 2	6/1/2017	6/1/2022	4.17
ENGINEER INTERN 2	6/20/2017	6/20/2022	4.22
ATTORNEY 4	6/26/2017	6/26/2022	4.24
NETWORKS MAINTENANCE TECH 2	7/1/2017	7/1/2022	4.25
NET SENIOR MAINTENANCE TECH 2	7/1/2017	7/1/2022	4.25
PUBLIC WORKS SUPERVISOR 4	7/1/2017	7/1/2022	4.25
MATERIAL AND STORES SUPV	7/3/2017	7/3/2022	4.26
ENGINEERING DIVISION MANAGER	8/1/2017	8/1/2022	4.34
PUMPING AND POWER PLANT OPR	8/1/2017	8/1/2022	4.34
NETWORKS MAINTENANCE TECH 1	10/1/2017	10/1/2022	4.51
WATER SERVICE INSPECTOR 2	10/1/2017	10/1/2022	4.51
NET SENIOR MAINTENANCE TECH 2	10/1/2017	10/1/2022	4.51
PRIN OFFICE SUPPORT SPECIALIST	11/6/2017	11/6/2022	4.61
STEAM PLANT ENGINEER 1	11/7/2017	11/7/2022	4.61
FACILITIES ENGINEERING SPCL	12/29/2017	12/29/2022	4.75
UTIL METER SERVICES SUPV ASST	1/3/2018	1/3/2023	4.76
WATER PURIFICATION OPERATOR 2	1/7/2018	1/7/2023	4.78
STEAM PLANT ENGINEER 3	1/8/2018	1/8/2023	4.78
PLUMBING INSPECTION SUPV ASST	1/14/2018	1/14/2023	4.79
POWER DISPATCHER 3	1/19/2018	1/19/2023	4.81
ADMIN. SUPPORT SUPERVISOR 2	2/1/2018	2/1/2023	4.84
PRIN OFFICE SUPPORT SPECIALIST	2/1/2018	2/1/2023	4.84
BOILER PLANT OPERATOR	2/8/2018	2/8/2023	4.86
PUMPING AND POWER PLANT OPR	2/8/2018	2/8/2023	4.86

Employees within 5 years: 32

### **MARCH SUMMARY**

	EFFECTIVE	
TITLE	DATE	ACTION
NET SENIOR MAINTENANCE TECH 2	3/1/2018	DELETION
EQUIPMENT OPERATOR 3	3/1/2018	DELETION
PUMPING STATIONS SUPV ASST	3/1/2018	DELETION
FIELD SERVICE SUPERVISOR	3/9/2018	DELETION

Particle	Hurricane Katrina		# of PWs	Obligations	Sur	FEMA Revenue Received	% Financially	Total # PWs Submitted for	Total S Value Submitted for	# PWs Officially Closed	°% Submitted	% Closed	# PWs Submitted but Not Closed	Total S Value Submitted but Not Closed
125   5   20,000			000	1312	+		3600	Liuscour	\$ 969,485.85	13	906	65%	5	
Training Plane   128   5   2012/10/10/20/20   5   2012/10/20/20   5   2012/10/20/20   5   2012/10/20/20   5   2012/10/20/20   5   2012/10/20/20   5   2   2   2   2   2   2   2   2   2	St. Jeseph Headquiners		20	700 oc	+		- NE	35	\$ 22,703,626,66	26	83%	629,0	6	S 15.789.154.69
State   Stat	Central Yard		27		+		Xte	7.6.1	S 84,856,520.97	121	3666	9566	9	S 37,755,947,72
State   Stat	Wastewater a realment Flant		070	١	20,000	TO 130 021 17	Color	50	(\$ 11.801.494.5)	+3	5616	784	7	5 2.831,652.18
Fig. 10   Fig.	Carrollton Water Plant		33	304,400	05,542,70	01 01 CC 1 CC	700	30	5 101 980 683 37	13	7405	480,	7	06 989,75,686,90
156   157   158	Distribution Network		27	5 18/1//	60.089	151,052,419,10	0.07	0.5	-C COMPANY 101 C	2	Ug	(10.2	c	3
166   S. N. 1700.285.65	JIRR		55	\$ 336,836	351.85	24.805.526.87	16%	0	51 000 200 13	000	000	100	23	C 21 137 084 00
Franciscue Costav   # of PWs   Projects   Franciscue   Franciscue   Franciscue Costav   # of PWs   Projects   Franciscue Costav   # of PWs   Projects   Franciscue   Franciscue Costav   # of PWs   Projects   Franciscue Costav   # of PWs   Projects   Franciscue   Franciscue Costav   # of PWs   Projects   Franciscue   Franciscue Costav   Franciscue Costav   Franciscue   Franciscue   Franciscue Costav   Franciscue   Franciscue Costav   Franciscue   Franciscue Costav   Franciscue Cost	Pump Stations		166	S 81.769	285.63	\$ 68,782,033,79	0.4% 0.4%	153	١	061	9.76	100.00		
Hurricane Castav	Total		493	П	$\overline{}$		52%	403		346	82%	70%	20	5 154,065,805.18
Hurricane Karrina HAICP Revenue Karrina HAICP Revenue Financially Complete Complete Complete Complete Complete Complete Complete FEMA Revenue Financially Complete Complete Complete Complete Contracts Submitted for Submitted for Closed Submitted Contracts Submitted Contracts Submitted Contracts Submitted Contracts Contracts Submitted Contracts Submitted Contracts Submitted Contracts Submitted Contracts Submitted Contracts Contracts Submitted C	Hurricane Gustav		# of PWs	Obligatic	Suc	FEMA Revenue Received	°,0 Financially	Total # PWs Submitted for	Total S Value Submitted for	# PWs Officially	% Submitted	% Closed	# PWs Submitted but Not Closed	Total S Value Submitted but Not Closed
Hurricane Kardina         # of PWs         Obligations         FEMA Received Received (Complete Auricane Ratriana Moc)         Total # PWs (Loseout Closeout Closeout (Closeout Closeout Closeout Closeout Closeout Closeout Closeout (Closeout Closeout	Total		6		$\rightarrow$		Complete 100%	Closeout		6	100%	%001	0	S
Hurricane Isaac														
HMCP	Hurricane Isaac		# of PWs	Obligativ	ons	FEMA Revenue Received	% Financially Complete	Total # PWs Submitted for Closeout	Total S Value Submitted for Closeout	# PWs Officially Closed	% Submitted	% Closed	# PWs Submitted but Not Closed	Submitted but Not Closed
HMGP   Projects   Pr	Total		œ		1,775.01		%19	_		-	13%	13%	0	
HACP   Projects   PEMA   Projects   PEMA   Projects   PEMA   Projects   Pema   Projects   Project														
urricane Katrina         HMGP         of projects         Obligations         Received numbered         Financially completed         of Contracts of projects         for completed         Conficence of completed         Conficence of completed         Conficence of completed         Conficence of completed         Close of contracts         % of contracts	*		*			FEMA	a.	Total#	S Value Submitted	# PIII s			Contracts Submitted	Total S Value Submitted
Projects   Obligations   Received   Complete   Complete   Complete   Complete   Closeout   Closeo		HMGP	Jo			Revenue	Financially	of Contracts	for	Contracts	0%	9/4	hut	but
it of Power House         39         10         5         57.043.5605.50         19%         2         5         6.3%         2         5         6.3%         2         5         6.3%         2         5         6.3%         2         6.3%         2         5         6.3%         2         6.3%         2         5         6.3%         7.822.453.23         5.2%         4         5         6.3%         7         6.3%         4         5         6         0%         0%         0%         0%         0%         0         8           Murricane Ike HArricane Ike Hazard Miligation 12         Mark No.         Projects         Obligations Projects         FEMA Received Obligations         %         Total #         Submitted Completed         Phys Closeout         %         %         %         Murricants Submitted Closeout Closeout         %         %         %         Murricants Submitted Closeout Closeout         %         %         %         %         %         Murricants Submitted Closeout         %         %         %         %         %         Murricants Submitted Closeout         %         %         %         %         %         %         %         %         % <td< td=""><td></td><td>No.</td><td>Projects</td><td>Obligati</td><td>ions</td><td>Received</td><td>Complete</td><td>Completed</td><td>Closeout</td><td>Closed</td><td>Submitted</td><td>Closed</td><td>Not Closed</td><td>Not Closed</td></td<>		No.	Projects	Obligati	ions	Received	Complete	Completed	Closeout	Closed	Submitted	Closed	Not Closed	Not Closed
Mingation of 9SPS         6         9         5         19.987.722.00         S         15.778.847.73         63%         2         S         0         0%         0%         0%         0%         0         S           Mingation of 9SPS         6         18         S         111.498.419.00         S         72.822.453.23         52%         4         S         0         0%         0%         0%         0         0         S         0	Danisa Gellat Dataset House	30	10	\$ 91.518	00.769.0	\$ 57,043,605,50	100"	rŧ	. 5	0	500	# <sub>0</sub> 0	0	S
Hurricane Ike   HMGP   Models   State   HMGP   State   State   State   HMGP   State   State   State   HMGP   State	Flood Minerion of 9 SPS	6	6	86.61 8	7.722.00	S 15,778,847,73	63.0	<.	S	0	5,40	950	0	S
Hurricane Ike   HMGP   Of   Obligations   Received   Complete   Close	Total		20		-		52%	7	S	0	%0	0%0	0	8
Hurricane Ike   HMGP   Of   Projects   Pro														
Hurricane Ike         HMGP of Projects         Projects         Obligations         Feever of Top Projects									Total C Value	72			Contracts	Total
Hurricane Ike         HMGP of Projects         of Obligations         Received Complete         Financially of Contracts         of Contracts of Contracts         of Contracts of Contracts         % of Obligation of Contracts         but of Double of Obligation of Contracts         but of Obligation of Obligation of Contracts         but of Obligation			72			FEMA	%	Total#	Submitted	PWs			Submitted	S Value Submitted
Projects		HAIGP	. ]			Revenue	Financially	of Contracts	for	Contracts	9/6	%	pnq	pnt
TioPowerHouse 2 [ \$ 988,658,00 \$ . 00.6		10.	Projects	Obligat	ions	Received	Complete	Completed	Closeout	Closed	Submitted	Closed	Not Closed	Not Closed
11 O F VONCE TROUSC 2 1 2 2 190% 0 9% 0 9% 0 9% 0 9% 0 9% 0 9% 0 9%				30	8 658 00	v	500	0		0	".0	****	0	S
	Retrollt of Power House			00		0	7011	0		0	%0	%0	0	S



### SEWERAGE AND WATER BOARD

### Inter-Office Memorandum

Date: April 4, 2018

To: Irma Plummer, EDBP Director

Valerie Rivers, Deputy Director - Logistics

Sharon Judkins, Deputy Director - Human Resources

From: Veronica Johnson-Christmas, EDBP

Re: EDBP Contract/Certification Summary - March 2018

### Analyses conducted by EDBP

For the month of March 2018, EDBP Department analyzed two (2) Goods and Services contracts.

### Goods and Services Contracts

Specifications for the Purchase, Delivery and Installation of Office Furniture for the JIR Office Renovation – REQ NO. PDU18-0009

On Thursday, March 22, 2018, two (2) bids were received for subject contract. The bid totals are as follows:

Contract Furniture Group, LLC KV Workspace, LLC

\$102,355.00

LLC \$104,589.26

Ten percent (10%) SLDBE participation was requested on this contract.

- Contract Furniture Group, LLC the apparent lowest bidder, submitted Bart's Office, Inc. (eligible-certified SLDBE) to receive, deliver and install furniture. Correspondence from DBE on their own letterhead reaffirming negotiated terms was not provided. Total Participation: \$10,300 10.063%
- ❖ KV Workspace, LLC, submitted Bart's Office Furniture Repairs, Inc. (eligible-certified SLDBE) to receive and install furniture. Signed correspondence from DBE on their own letterhead reaffirming negotiated terms was not provided. Total Participation: \$18,019.77 - 17.229%

Based upon analysis of SLDBE participation, the Economically Disadvantaged Business Program recommends that the SLDBE participation submitted by Contract Furniture Group, LLC, be considered as non-responsive and the bid submitted by KV Workspace, LLC be considered as non-responsive to meeting EDBP bid requirements.

### Furnishing of Solid Waste Disposal Services - REQ NO. PM18-0016

On Thursday, March 22, 2018, two (2) bids were received for subject contract. The bid totals are as follows:

Richard's Disposal, Inc. Waste Pro of Louisiana, Inc. \$63,339.64 \$72,772.00

Twenty percent (20%) SLDBE participation was requested on this contract.

Richard's Disposal, the apparent lowest bidder, submitted Metro Service Group, Inc. (eligible-certified DBE) to perform disposal services. Correspondence from DBE on their own letterhead reaffirming negotiated terms was not provided. Documented Good Faith Effort accompanied with notarized affidavit was not provided.

Total Participation: \$12,667.28 - 19.9999%

Waste Pro of Louisiana, Inc., submitted Jamie's Disposal, LLC (eligible-certified SLDBE) to perform waste transportation. Correspondence from DBE on their own letterhead reaffirming negotiated terms was provided. Documented Good Faith Effort accompanied with notarized affidavit was not provided.

Total Participation: \$14,550.00 - 19.9939%

Based upon analysis of SLDBE participation, the Economically Disadvantaged Business Program recommends that the SLDBE participation submitted by Richard's Disposal, Inc.be considered as non-responsive and the bid submitted by Waste Pro of Louisiana, Inc. be considered as non-responsive to meeting EDBP bid requirements.

### CONSTRUCTION REVIEW COMMITTEE RECOMMENDATIONS

The Construction Review Committee convened Thursday, March 8, 2018, and made the following recommendations:

### OPEN MARKET CONTRACTS

1. Contract #1370 Power House General Contract

Budget Amount:

\$50,650,000.00

Recommended Percentage Goal:

27%

Renewal Option(s):

None

2. Contract #1398 Replacement of Filter Media of Filters #2, #3, #4, #6, #7, #8 and Actuators at the Claiborne Filter Gallery at the MWPP

Budget Amount:

\$4,420,000.00

Recommended Percentage Goal:

36%

Renewal Option(s):

None

3. Contract #1403 C-7/C-8 Basin Demolition

Budget Amount:

\$9,200,340.00

Recommended Percentage Goal:

36%

Renewal Option(s):

None

### STAFF CONTRACT REVIEW COMMITTEE RECOMMENDATIONS

The Staff Contract Review Committee convened on March 8, 2018 and made the following recommendations:

### OPEN MARKET CONTRACTS

1) Contract for Furnishing Anhydrous Ammonia

Budget Amount: \$360,000.00

Recommended Percentage Goal: 0

Justification: Item does not lend itself to SLDBE participation because there

are no SLDBE firms certified in the area of chemicals; the product is a sole source item and shipped directly from the

manufacturer in specialized pneumatic bed lined trucks.

Renewal Option(s): One (1) year with one (1) year renewal option

2) Contract for Furnishing Fluorosilicic Acid to the Algiers and Carrollton Plants

Budget Amount: \$275,000.00

Recommended Percentage Goal: 0%

Justification: Does not lend itself to SLDBE participation because no SLDBE

company is certified in the area of chemicals and the product is a sole source item shipped directly from the manufacturer in

specialized pneumatic bed lined trucks.

Renewal Option(s): One (1) year with one (1) year renewal option

3) Automated Metering Infrastructure Procurement and Installation Project

Budget Amount: \$44,896,952.96

Recommended Percentage Goal: Section A 7%

Section B 0% Section C 15% Section D 40% Section E 7%

DBE Goal Alternative: If RFP is written for procurement by a single vendor then the

overall goal shall be 25%.

### **RENEWAL CONTRACTS**

4) Armed Security Guards Services

Budget Amount: \$3,500,000.00

Renewal Option: Second of Four (4) - One (1) year renewal options

Renewal Cost: \$3,500,000.00

Percentage Goal: 35%
Percentage Goal Achieved: 42.77%

Prime Contractor: Professional Security Corporation

5) Furnishing Fire Extinguishers Service

Budget Amount:

\$63,687.50

Renewal Option:

Final Renewal Option

Renewal Cost:

\$63,687.50

Percentage Goal:

5% 0%

Percentage Goal Achieved:

DBE will provide stenciling of fire extinguishers to be mounted

Justification:

into S&WB trucks; quantity 115, size 2.5lbs.

Prime Contractor:

Herbert S. Hiller

### FINAL ACCEPTANCE CONTRACTS with SLDBE PARTICIPATION

For the month of March 2018, there were two (2) Final Acceptance contracts with SLDBE participation to report.

Contract #2111 - Water Main Point Repair, Water Service Connection, Water Valve, and Fire Hydrant Replacement at Various Sites throughout Orleans Parish

DBE Goal:

36.00%

DBE Participation Achieved:

40.58%

Prime Contractor:

Wallace C. Drennan, Inc.

Closeout Date:

March 2018

The Economically Disadvantaged Business Program recommends that the participation on subject contract be approved for Final Acceptance.

### Contract #2123 - Water Main Line Replacements and Extensions at Scattered Locations throughout Orleans Parish

DBE Goal:

36.00%

DBE Participation Achieved:

36.04%

Prime Contractor:

Wallace C. Drennan, Inc.

Closeout Date:

March 2018

The Economically Disadvantaged Business Program recommends that the participation on subject contract be approved for Final Acceptance.

### **BID PROTEST SUMMARY**

EDBP participated in the resolution of one bid protest during 1st quarter, 2018

### Contract #1404 - Algiers Water Purification Plant Improvements Project

On Friday, December 1, 2017 four (4) bids were received for subject contract. The bid totals are as follows:

Max Foote Construction Co., LLC	\$7,240,000.00
M.R. Pittman Group, LLC	\$7,419,400.00
Pintail Contracting Services, LLC	\$7,642,000.00
Lou-Con, Inc.	\$7,148,000.00

Thirty-five percent (35%) SLDBE participation was requested on this contract.

### Background

The apparent lowest bidder, Max Foote Construction Co., LLC, submitted the following subcontractors:

**APC Construction Co., LLC** (eligible certified SLDBE) Electrical & instrumentation \$1,059,644.00 - 14.64%

**Lacy & Co., Protective Coatings, Inc.** (non-certified subcontractor) Protective coatings \$486,499.00 - 6.72%

Larry McCorkle Steel (eligible certified DBE) Steel reinforcement Supply & Installation \$62,950.00 - 0.87%

Mitchell Contracting, Inc. (eligible certified SLDBE) Mechanical piping, valves, Chemical Building improvements \$984,188.00 - 13.59%

Total Sub-contractor Participation:	\$2,593,281.00 35.82%
Total DBE Certified Participation:	\$2,106,782.00 — 29.10%

Correspondence from DBEs on their own letterhead reaffirming negotiated terms was provided. Documentation of Good Faith Effort with notarized affidavit provided. Material for Documentation of Good Faith Effort was insufficient in justifying failure to reach established goal.

Based upon analysis of DBE participation, the Economically Disadvantaged Business Program recommends that the DBE participation submitted by Max Foote Construction Co., LLC be considered as non-responsive, and that the SLDBE participation submitted by M.R. Pittman Group, LLC, be considered as responsive to meeting EDBP bid requirements.

On December 15, 2017, Max Foote Construction Co., LLC (MFCC), submitted a bid protest. EDBP maintained its dispute of MFCC's protest, reiterating that the bid presented by MFCC was not aligned with the requirements of DBE bid policy, and reaffirmed its position, that the bid be considered as non-responsive.

A formal Bid Protest Administrative Hearing was conducted January 31, 2018, with Lee Phillips, Hearing Examiner, presiding. Based upon evidence and statements presented by Max Foote Construction Co., LLC and EDBP, Mr. Phillips concluded that the decision of EDBP should be affirmed.

Sewerage & Water Board of New Orleans Contracts with DBE Participation January through March 2018

Sewerage & Water Board New Orleans Awarded Projects with SLDBE Participation January 2018 - March 2018

Category	Category	Category Dollar Amount	SLDBE	SLDBE Dollar Value
Construction Projects Goods & Services Projects Professional Services Projects	w w w	5,606,983 314,143 146,900	« « »	1,826,138 94,500 7,830
Grand Total	44	6,068,026	•	1,928,468

Sewerage & Water Board of New Orleans Open Market Bids with DBE Participation January 2018 - March 2918

Construction Projects Awarded 2018

	200				* 086				% OBE	
Contract No./Description	Gon	Confract \$	Prime	Sub(a)	Prince)	•	3 Sub Amend	8 946 Paid	Pad D	Onto the control of t
92.129 - Water Main Point Repail, Water Service Connection, Water Valve and Fire Indiant Replacement at Various Sites Unoughout Orleans Parish	\$	\$870,863.00	Grady Crawford Communities Co., Inc.	Purmel Construction Co., LLC; to provide labor, material, and equipment	36.19%	•	\$315,600.00	Notice to Proceed has not been delivered		272172018
#8156 - Carrollon Weller Plant Engineering Building Renovations	Ŕ	\$443,000.00	Malin Construction Co., Inc.	Thomwille Services, Inc.; to perform demoillion, alectricis, drywell, fremitrg, and painting	<b>********</b>	-	\$190,000.00	MTP has not been delivered	**	2/21/2018
#30106 - Rehabilitation of Bio-Reactor Train 64 et the Emit Washeverier Treatment Plant	Ē	\$1,697,000.00	Chart Mechanical Construction, LLC	EFT Diversified, Inc.; to perform transportation and disposal of removed maleritats	% <b>9</b> 95702		\$380,000.00	NTP has not been delivered	.,	272172018
630110 - Electrical Improvements Phase It Replacement of Motor Central Centers F&G and Associated 480v Switchgeer at EBWWTP	13% X	\$999,000,00	Walter J. Barnes Electric Co., Inc.	C. Watson Group, L.C. to supply electrical equipment	37.57%	60	\$365,000.00	NTP has not been darkwored	CQ.	3/26/2018
#5241 - DPB #1 Anth-Signon Project	10%	\$629,000.00	M.R. Pittman Group, LLC	J. Brown Construction, U.C; to supply butterfly valvan and actuators	46,60%	•	4241,638,00	NTP has not been delivered	**	2/21/2017
#80216 - Electrical improvements Phase Il Replacament of Motor Control Centers F&C and Associated 460v Buildhgear at EBWWTP	30%	989,300,00	Wellace C. Drennen, Inc.	Prince Dump Truck Services, LLC, to 20,62% provide general healing of various types of material, in-em-five job siles. Supply send & aggregate materials, funding and funding services.		\$167,000.00			**	3/26/2018
				Choice Supply Solutions; to supply 6.00% materials		62,500.00		NTP has not		
				Conset Confescing Group, LLC; 8.35% construction Linderground utilities, site preparation, concrete and eaphalt maxima.		75,000.00		been defrered		
				Total	38.12%		£324,500.00			
Total Construction Projects		\$5,604,983.00			3,0%	<u> </u>	\$1,826,138.00			

Sewerage & Water Board of New Orleans Open Market Bids with DBE Participation January 2018 - March 2018

Goods & Services Projects Awarded 2018

Award date	3/28/2018	
% DBE Sub Paid		
\$ Sub Paid	Notice to Proceed has not been delivered	
\$ Sub Award	\$94,500.00	\$94,500.00
% DBE Part (Prime)	30.08%	30%
Sub(s)	Westbank Paper & Janitorial Supply, Inc.; to provide supplies	
Prime	Assorbed Products, LLC	
Contract \$	\$314,142.90	\$314,142.90
%DBE Goal	30%	
Contract No./Description	#YW18-0001 - Hand Tools, Hardware Supplies, Paint & Paint Supplies	Total Goods & Services Projects

Sewerage & Water Board of New Orleans Open Market Bids with DBE Participation January 2018 - March 2018

### Professional Services Projects Awarded 2018

Contract No./Description Goal EV180001 - Municipal 5% Separate Storm Water (MS4) Permit Renewal, MS4 Annual Report, and Spill Prevention, Control, Countermeasure (SPCC) Plan EV180002 - Environmental 5% Consulfing Services for Limited Phase II Subsurface Investigation of Existing Diesel Above Ground Storage Tank	\$120,854.00 \$126,046.00	Prime Sub(s) Digital Engineering The Beta Group APTIM Gulf South Engir Environmental & and Testing, Inc. Infrastructure, Inc.	. eering	% DBE Part (Prime) 5.00% 6%	\$ Sub Award \$6,270.00 \$1,560.00	\$ Sub Peid Sub Sub Peid Paid Notice to Proceed has not been delivered not been delivered delivered delivered	Award date 3/28/2018 3/28/2018
Total Professional Services Projects	\$146,900.00			<b>%</b>	\$7,830.00		