

**Coral Springs  
Improvement District**

**Agenda**

**August 15, 2016**



## Coral Springs Improvement District

August 9, 2016

Board of Supervisors  
Coral Springs Improvement District

Dear Board Members:

The regular meeting of the Board of Supervisors of the Coral Springs Improvement District will be held on August 15, 2016 at 4:00 p.m. at the District Offices, 10300 NW 11<sup>th</sup> Manor, Coral Springs, Florida. Following is the advance agenda for the meeting.

1. Roll Call
2. Approval of the Minutes of the July 18, 2016 Meeting
3. Audience Comments
4. Consideration of Ford F250 Truck Purchase Piggybacking Off of the Florida Sheriff's Association
5. Consideration of Membrane Cleaning Chemical C-234 Piggybacking Off of Palm Beach County
6. Consideration of Purchase of Chlorine Pumps Piggybacking Off of Hillsborough County
7. Consideration of Work Authorizations
  - A. Work Authorization #118 for Margate Interconnect at a Total Cost of \$480,456
    - i. Motion to Authorize the President to Execute Interlocal Agreement with the City of Margate Subject to Final Legal Review
  - B. Work Authorization #119 for High Service Pump #5 Building Concrete Slab Repair for a Total Cost of \$6,945
  - C. Amendment #1 to Work Authorization #116 for Canal Bank Site #9 for a Decrease of \$23,264.37
8. Staff Reports
  - A. Manager – Ken Cassel
    - Meeting Schedule for Fiscal Year 2017
  - B. Engineer – Troy Lyn (Report Included)
  - C. Department Reports
    - Operations – Dan Daly
      - Utility Billing Work Orders
    - Utilities Update (David McIntosh)
    - Water – Joe Stephens (Report Included)
    - Wastewater – Tim Martin (Report Included)
    - Stormwater – Randy Frederick (Report Included)



## Coral Springs Improvement District

- Field – Curt Dwiggin (Report Included)
  - Human Resources – Jan Zilmer
  - Motion to Accept Department Reports
- D. Attorney
9. Approval of Financial Statements for July 2016
  10. Supervisors' Requests
  11. Adjournment

Any supporting documents not included in the agenda package will be distributed at the meeting. If you have any questions prior to the meeting, please contact me.

Sincerely,

*Kenneth Cassel*

Kenneth Cassel/sd  
District Manager

cc:	Stephen Bloom	Randy Frederick	Kay Holmes
	William Capko	Troy Lyn	Beverley Servé
	Dan Daly	John McKune	Joe Stephens
	David McIntosh	Diane Rottner	Jan Zilmer
	Shawn Frankenhauser	Tim Martin	Curt Dwiggin

# MINUTES

**MINUTES OF MEETING  
CORAL SPRINGS IMPROVEMENT DISTRICT**

A regular meeting of the Board of Supervisors of the Coral Springs Improvement District was held on Monday, July 18, 2016 at 4:00 p.m. at the District Office, 10300 NW 11<sup>th</sup> Manor, Coral Springs, Florida.

Present and constituting a quorum were:

Martin Shank	President
Duane Holland	Vice President
Nick St. Cavish	Secretary

Also present were:

Kenneth Cassel	District Manager
William Capko	District Counsel
Dan Daly	Director of Operations
Troy Lyn	District Engineer
David McIntosh	Director of Utilities
Kay Homes	District Accountant
Jan Zilmer	Human Resources
Joe Stephens	Water Department
Tim Martin	Wastewater Department
Shawn Frankenhauser	Drainage Department
Curt Dwiggin	Field Supervisor
Rick Olson	Globaltech
David Schuman	Globaltech
Harold Aiken	MWH Global
Michael Bechtold	FDEP, Southeast District
Errol Duboulay	Resident

*The following is a summary of the minutes and actions taken during the July 18, 2016 CSID Board of Supervisors Meeting.*

**FIRST ORDER OF BUSINESS**

**Roll Call**

Mr. Cassel called the meeting to order and called the roll.

**SECOND ORDER OF BUSINESS**

**Approval of the Minutes of the June 20, 2016 Meeting**

Each Board member received a copy of the minutes of the June 20, 2016 meeting and Mr. Shank requested any corrections, additions or deletions.

There being none,

On MOTION by Mr. Holland seconded by Mr. St. Cavish with all in favor the minutes of the June 20, 2016 meeting were approved.

**FIFTH ORDER OF BUSINESS**

**Consideration of Encroachment, 1720 NW 127<sup>th</sup> Way**

The Board reviewed the proposed encroachment for the installation of a fence.

- Mr. Frankenhauser stated there is an existing encroachment agreement between the property owner and the District for a propane tank located within the District easement. He recommends modifying the existing agreement.
- There is a 12 foot right-of-way and 15 foot easement within the private property. They are requesting to extend the fence, which will encroach in the canal maintenance easement.

On MOTION by Mr. St. Cavish seconded by Mr. Holland with all in favor to amend the existing encroachment agreement with 1720 NW 127<sup>th</sup> Way to include the fence.

**FOURTH ORDER OF BUSINESS**

**Next Generation Wastewater Treatment Using Engineered Biocatalyst – Presentation by Harold Aiken**

Mr. Aiken of MWH Global addressed the Board and made a presentation on the use of engineered biocatalyst technology to treat wastewater. A copy of the presentation is attached hereto and made a part of the public record. He also introduced Mr. Bechtold of the Florida Department of Environmental Protection.

**THIRD ORDER OF BUSINESS**

**Audience Comments**

There being no comments, the next item followed.

**SIXTH ORDER OF BUSINESS**

**Public Hearing to Consider General Fund Budget for Fiscal Year 2017**

Mr. Shank opened the public hearing. There were no comments from the public.

On MOTION by Mr. Holland seconded by Mr. St. Cavish with all in favor the public hearing was closed.

The Board reviewed the proposed budget for Fiscal Year 2017.

- A. Resolution 2016-7, Adopting the Fiscal Year 2017 General Fund Budget**  
Mr. Cassel read Resolution 2016-7 by title only.

On MOTION by Mr. Holland seconded by Mr. St. Cavish with all in favor Resolution 2016-7, adopting the budget for Fiscal Year 2017, was adopted.

**B. Resolution 2016-8, Levying Non Ad Valorem Assessments**

Mr. Shank read Resolution 2016-8 by title only and noted the assessments will remain the same. He questioned whether a special assessment is necessary to increase funds for canal bank restoration. Mr. Capko explained the Board would have to amend the budget they just adopted. After further discussion there was consensus to leave the assessments as is.

On MOTION by Mr. Holland seconded by Mr. St. Cavish with all in favor Resolution 2016-8, levying non ad valorem assessments, was adopted.

**SEVENTH ORDER OF BUSINESS**

**Distribution of the Proposed Water and Sewer Budget for Fiscal Year 2017 and Consideration of Resolution 2016-9, Approving the Budget and Setting the Public Hearing**

The Board discussed the proposed date of the water and sewer budget public hearing and agreed to change the date to September 19, 2016.

On MOTION by Mr. St. Cavish seconded by Mr. Holland with all in favor Resolution 2016-9, approving the proposed water and sewer budget and setting the public hearing for the amended date of September 19, 2016, was adopted.

**EIGHTH ORDER OF BUSINESS**

**Consideration of Encroachment Agreement with the City of Coral Springs**

Mr. Capko reviewed the encroachment agreement with the City of Coral Springs for Fire Station 95.

On MOTION by Mr. St. Cavish seconded by Mr. Holland with all in favor the encroachment agreement with the City of Coral Springs for Fire Station 95 was approved.

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**NINTH ORDER OF BUSINESS****Staff Reports****A. Manager – Ken Cassel**

Mr. Cassel reported he received the records requested from the City and has forwarded them to special counsel for review.

**B. Engineer – Troy Lyn (Report Included)**

Mr. Lynn reviewed the project status report, a copy of which is attached hereto and made a part of the public record.

**C. Department Reports**

- **Operations – Dan Daly**

- **Utility Billing Work Orders**

The above item is for informational purposes only. Mr. Daly distributed a handout with proposed conditions and requirements to rent out approximately 25,000 to 35,000 square feet of land to Metro Equipment Service, Inc. to store their equipment. Mr. Capko indicated he would draft a use agreement instead of a lease agreement.

- **Utilities Update (David McIntosh)**

Mr. McIntosh reported on the remediation of the diesel tank spillage, which is ongoing and is expected to be completed by the middle of next month. He is also working with FPL to reduce the District facilities' electricity usage.

- **Water – Joe Stephens (Report Included)**

A copy of the report was included in the agenda package and is attached hereto as part of the public record.

- **Wastewater – Tim Martin (Report Included)**

A copy of the report was included in the agenda package and is attached hereto as part of the public record.

- **Stormwater – Randy Frederick (Report Included)**

A copy of the report was included in the agenda package and is attached hereto as part of the public record.



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- **Field – Curt Dwiggin (Report Included)**

A copy of the report was included in the agenda package and a handout showing water break density was distributed at the meeting. Copies of the report and handout are attached hereto as part of the public record.

- **Human Resources – Jan Zilmer**

Mr. Zilmer reported July is open enrollment for health insurance. The current carrier came up with a 25% increase; however, after researching other options they lowered the increase to 13%. The employee barbeque was rescheduled to July 16, 2016. A new employee will be starting on July 25, 2016 in the wastewater department.

- **Motion to Accept Department Reports**

On MOTION by Mr. St. Cavish seconded by Mr. Shank with all in favor the department reports were accepted.

**D. Attorney**

Mr. Capko distributed a memorandum for the Board to review regarding dock policy options. He requested clarification on whether the encroachment agreement approved at the last meeting included the property owner’s being able to keep the hedges. The Board confirmed they can keep the hedges.

**TENTH ORDER OF BUSINESS**

**Approval of Financial Statements for June 2016**

There being no questions or comments,

On MOTION Mr. St. Cavish seconded by Mr. Holland with all in favor the financials were approved.

**ELEVENTH ORDER OF BUSINESS**

**Supervisors’ Request**

The following was discussed:

- Mr. Shank requested the engineer reports on different projects be submitted to the Board with the department heads’ comments.
- Mr. St. Cavish complemented the department heads on their reports.
- There was discussion regarding a potential shade meeting.

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**TWELFTH ORDER OF BUSINESS**

**Adjournment**

There being no further business,

On MOTION by Mr. Holland seconded by Mr. St. Cavish with all in favor the meeting was adjourned.

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Kenneth Cassel  
Assistant Secretary

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Martin Shank  
President


## **Fourth Order of Business**



**CORAL SPRINGS**

<b>Prepared for:</b> CORAL SPRINGS CURTIS DWIGGINS 954-796-6608 curtd@fladistricts.com	<b>Contract Holder</b> Duval Ford Fleet Sales BAMBI DARR (Work) 904-388-2144 (Fax) 904-387-6816 (Cell) 910-622-6544 BAMBI.DARR@duvalfleet.com 1616 Cassat Ave. Jax, FL 32210	<b>DATE:</b> 6/14/16
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PLEASE CONFIRM RECEIPT OF QUOTE VIA EMAIL

 I appreciate your interest and the opportunity to quote. Prices are published by the Florida Sheriff's Association/ Florida Association of Counties & Florida Fire Chiefs' Association Automotive Contract #15.13.0904 chassis / 15.23.0904. (www.flsheriffs.org) If you have any questions regarding this quote please call! Vehicle will be ordered white exterior unless specified on purchase order.

Labor	Code	Equipment	Price
0	SPEC #51	2017 F250 REGULAR CAB SRW 4X2 (F2A)	\$ 20,449.00
0		142" WHEELBASE 8' BOX	STD
0	996	6.2L V8 FLEX FUEL GAS ENGINE	INCL
0	600A	ORDER GROUP	INCL
0	X37	3.73 AXLE RATIO	INCL
0	TBK	LT245/75SR17 BSW AS front and rear tires	INCL
0	512	SPARE TIRE, WHEEL, CARRIER & JACK	INCL
0	STD	MANUAL WINDOWS/ DOOR LOCKS	STD
0	52B	TRAILER BRAKE CONTROLLER	\$ 269.00
0	66S	UPFITTER SWITCHES (4)	\$ 164.00
0	942	DAYTIME RUNNING LIGHTS	\$ 44.00
0	585	RADIO: AM/FM STERIOR/ SINGLE CD	\$ 274.00
0	17F	XL DÉCOR GROUP	\$ 219.00
0	525	CRUISE CONTROL	\$ 234.00
0	696J	KNAPHEIDE SERVICE BODY- Rugged 14gauge two-sided A-40 galvanized steel body shell with a six year warranty. Complete undercoating provides an additional layer of corrosion protection. Double panel door construction combined with stainless steel rotary latches. Includes 66D bed credit	\$ 5,400.00
0	31V.31B	SHIP THROUGH INCLUDES WEIGHT SLIP, CERTIFICATION AND DEALER PDI	\$ 260.00
2	MC16PA	DUAL AMBER STROBE- WHELEN MC16PA MINI LIGHT BAR (01-0687121-APB)	\$ 316.00
0			
0	Z1	EXTERIOR: OXFORD WHITE	
0	AS	INTERIOR: GRAY VINYL 40/20/40	
0		VINYL FLOOR	
0			
2	LABOR	Total labor hours per spec. Includes wire, loom, connectors, PDI and shop supplies:	\$145 \$ 290.00
0			
0		2017 MODEL PRICE VARIANCE ADJUSTMENT	\$ 869.00
	VENDOR COMMENTS	PLEASE CLEARLY NOTATE ON YOUR PURCHASE ORDER WHERE DUVAL FORD IS TO SHIP YOUR VEHICLE, HOW THE VEHICLE IS TO BE TITLED, AND WHERE THE INVOICE IS TO BE MAILED.	
	UNIT COST		\$ 28,788.00
	TOTAL QUANTITY	1	TOTAL PURCHASE \$ 28,788.00



# ***BID AWARD ANNOUNCEMENT!***

# **15-23-0904**

***Effective Dates:***

*October 1, 2015 – September 30, 2016!*

**POLICE RATED, ADMINISTRATIVE, UTILITY VEHICLES,  
TRUCKS & VANS**

***Participating Sheriffs Offices & Local Governmental  
Agencies of the State of Florida!***

*Coordinated By!*

**The!  
Florida Sheriffs Association!  
& Florida Association of Counties!**



# MEMO



## FLORIDA SHERIFFS ASSOCIATION

P. O. Box 12519 • Tallahassee, FL 32317-2519  
PHONE (850) 877-2165 • FAX (850) 878-8665  
WEB SITE: www.flsheriffs.org

DATE: October 1, 2015

TO: **ALL PROSPECTIVE PARTICIPANTS**

FROM: Steve Casey	Peggy Goff	Drew Terpak	Annette Grissom
Executive Director	Deputy Executive Director	Business Operations Manager	Cooperative Bid Coordinator

RE: **POLICE RATED, ADMINISTRATIVE, UTILITY VEHICLES, TRUCKS & VANS**  
**BID NO.: 15-23-0904**

We are pleased to announce that the Florida Sheriffs Association and the Florida Association of Counties has successfully conducted its 23rd statewide competitive bid for vehicles which includes police rated, administrative, motorcycles, utility vehicles, trucks & vans. **This contract is effective beginning October 1, 2015 through September 30, 2016, as long as vehicles are available through fleet.**

Bids will be extended and guaranteed to any and all units of local governments/political subdivisions including but not limited to county, local county board of public instruction, municipalities and/or police agencies, other local public or public safety agencies or authorities within the State of Florida, and the state universities and colleges. In addition, bids will be extended and guaranteed to any other entities approved by manufacturers to participate in this contract. The participating agencies cannot guarantee any order other than those ordered through each individual agency.

In order to ensure quality service for our user agencies, we are requesting each of you to notify the Florida Sheriffs Association regarding any problems encountered in working with the awarded dealers. Any issues, including but not limited to, receipt of confirmation of order, delivery problems and communication problems, should be reported to us by e-mail at [FLEET@flsheriffs.org](mailto:FLEET@flsheriffs.org). This information will be considered in future bid awards in order to ensure that agencies are receiving the level of service required of dealers who wish to participate in this program.

***All interested parties who wish to purchase from this contract may do so by following these simple procedures:***

### ORDERING INSTRUCTIONS

1. Contact the awarded dealership listed in the zone from which you wish to purchase and advise them of your interest to purchase from **Bid No. 15-23-0904**. They will assist you with the placement of your order and answer any questions you may have regarding the

vehicles purchased through this program. **You can only purchase from a dealer who is listed as a winner of one of the four zones for the vehicle you wish to purchase. However, you may purchase from any awarded dealer within any zone (additional delivery fees may apply).**

Agencies ordering a Ford, General Motors, Chrysler, or Toyota product, please be advised that you must use the appropriate FIN Code/FAN Code for the Florida Sheriffs Association in order to obtain the manufacturer's concessions. Also, you must use your FIN Code/FAN Code as a secondary number. For further assistance call the Fleet Customer Information Center for your appropriate manufacturer.

<b>Manufacturer</b>	<b>Type Code</b>	<b>FSA Code</b>	<b>Fleet Center Contact Numbers</b>	
Ford	FIN Code	QE065	1-800-34-FLEET	(1-800-343-5338)
General Motors	FAN Code	917872	1-800-FLEET OP	(1-800-353-3867)
Chrysler	FAN Code	48830	1-800-999-FLEET	(1-800-999-3533)
Toyota	FIN Code	GE159	1-800-732-2798	

2. **YOU MUST send a copy of the original purchase order (including FSA's Contract No. 15-23-0904) submitted to the participating dealer electronically to: COOP@flsheriffs.org**
3. **Basic information required on all purchase orders** is listed in this Bid Award Announcement. Purchase orders lacking the required basic information listed may result in the delay of placement and/or confirmation of orders. NOTE: The agency is responsible for obtaining a "Confirmation of Order" from the respective dealership. Dealers are required to complete a "Confirmation of Order" and send it to the purchaser within fourteen (14) calendar days after receipt of purchase order. Purchasers are encouraged to contact the dealer if a "Confirmation of Order" has not been received within a reasonable time.  
  
Purchasers are reminded that the issuance of a purchase order does not in itself guarantee the placement of an order.
4. All Cooperative Contracts include an administrative fee of .0075 or three quarters of one percent. The base price and all add options are inclusive of the administrative fee.
  - **POLICE RATED, ADMINISTRATIVE, UTILITY VEHICLES, TRUCKS & VANS** – Dealers ARE to include a three quarters of one percent (.0075) administrative fee in their base bid prices and their quotes and pricing for all additional equipment items (add options), excluding any state regulated fees including tags. The three quarters of one percent (.0075) will be incorporated into and made a part of the total invoice amount and shall not be treated or added as a separate line item. Fees are based on the total invoice cost of the new vehicle or equipment and excluding trade-ins. Trade-ins and other exchanges will not reduce or impact the fee calculation. No Other administrative fee(s) will be applicable to any transaction relative to the contract.
5. In order to ensure quality service for our user agencies, we are requesting that you notify the Florida Sheriffs Association regarding any problems encountered in working with the awarded dealers. Any issues, including but not limited to, receipt of confirmation of order, delivery problems and communication problems, should be reported to us by e-mail at FLEET@flsheriffs.org. This information will be considered in future bid awards in order to ensure that agencies are receiving the level of service required of dealers who wish to participate in this program.
6. Add/delete options might include a superscript listed by the Order Code. The purpose of the superscript is to identify which options correlate to a specific dealer. Superscripts will be a number between 1 and 4, and will correspond as follows:
 

1 = Western zone dealer	3 = Central zone dealer
2 = Northern zone dealer	4 = Southern zone dealer

If a dealer has been awarded more than one zone, they will only have one superscript number assigned, and it will be the lowest numerical number that applies to their awarded zones. For example, if a dealer is awarded the northern and southern zones, their add/delete options for both zones will be represented by a “2” superscript.

Options are intended to add or delete equipment and/or features from the base vehicle specification, and to allow for an upgrade or downgrade to a manufacturer’s model with a slightly different engine size or horsepower, and as such, will not be made available for purchase separate from the base vehicle.

**IMPORTANT NOTE:** The manufacturers produce limited quantities of certain vehicles and orders are processed on a first come first serve basis and limited by the manufacturing plants capacity during any given model year. **We are advising all agencies to place their orders for police rated vehicles as soon as possible to ensure delivery of product.**





**FLORIDA SHERIFFS ASSOCIATION  
& FLORIDA ASSOCIATION OF COUNTIES**

**3/4 TON PICKUP TRUCK - 4X2  
SPECIFICATION #51**

**2016 Ford F-250 SD (F2A)**

The Ford F-250 SD (F2A) purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and FSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by specification by zone.

ZONE:	★ Western	★ Northern	★ Central	Southern
BASE PRICE:	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

While the Florida Sheriffs Association and Florida Association of Counties have attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

Order Code	Delete Options	Western & Northern & Southern	Central
66D <sup>1</sup> 66D <sup>2</sup>	Cargo box and rear bumper <i>Included with optional bodies. PICKUP BOX DELETE Availability: Optional XL and XL T : F-250, Regular Cab 137" WB (8 ft. box) Usage: Incomplete vehicle package – req. further manufacture and certification by a final stage manufacturer. In addition, Ford urges manufacturers to follow the recommendations of the Ford Incomplete Vehicle Manual and the Ford Truck Body Builder's Layout Book (and applicable supplements). NA with: 20" Wheels and Tires, FX4 Off-Road Package (17X), Trailer Tow Package – High Capacity (535) Includes: 17.5K Trailer Hitch Receiver (see Trailer Tow guide for rating) Deletes: Pickup Box and Tie-down hooks, T ail gate, Bodyside moldings, Rear bumper, Spare wheel, tire, carrier and jack, 7/4 Pin Connector, Center High-mounted Stop Lamp (CHMSL) (59H) (only on vehicles over 10,000 lbs. Gross Vehicle Weight Rating) Options Available: CenterHigh-mounted Stop Lamp (59H) (only on vehicles over 10klbs gvwr)<sup>1</sup>  <i>Incomplete vehicle package Deletes: Pickup Box and Tie-down hooks, Tailgate, Bodyside moldings, Rear bumper, Spare wheel, tire, carrier and jack, 7/4 Pin Connector, Center High-Mounted Stop Lamp (CHMSL) (59H) (only on vehicles over 10,000 lbs. Gross Vehicle Weight Rating) – req. further manufacture and certification by a final stage manufacturer. In addition, Ford urges manufacturers to follow the recommendations of the Ford Incomplete Vehicle Manual and the Ford Truck Body Builder's Layout Book (and applicable supplements). [SUBTRACT \$294 from credit to include full size spare and tire carrier] -or- (Dealer remove pickup bed, leaves CHSML, rear bumper, spare tire, and spare tire carrier \$300 credit)<sup>2</sup></i></i>	\$200.00 <sup>1</sup>	\$454.00 <sup>2</sup>
58Y <sup>1</sup> 58Y <sup>2</sup>	AM/FM stereo radio <i>NA with XLT model upgrade</i> <sup>1</sup>	\$30.00 <sup>1</sup>	NC <sup>2</sup>
M57 <sup>1</sup> 572 <sup>2</sup>	Air conditioning <i>IF ORDERING VEHICLES WITHOUT A/C PAYMENT WILL BE REQUIRED UPON ORDER. "NON-REFUNDABLE"</i> <sup>2</sup>	\$500.00 <sup>1</sup>	\$100.00 <sup>2</sup>
51X <sup>1</sup> 51X <sup>2</sup>	Full size spare tire and rim	\$50.00 <sup>1</sup>	\$50.00 <sup>2</sup>

Order Code	Add Options	Western & Northern & Southern	Central
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**Please refer to the Emergency Vehicle Lighting Specifications for lightbar descriptions and the awarded dealer pricing.**

99T <sup>1</sup> 99T 44W <sup>2</sup>	Engine upgrade - specify <i>6.7L 4 Valve OHV Power Stroke® V8 Turbo Diesel B20/TorqShift® Six-Speed Automatic w/SelectShift® Automatic</i> <sup>1</sup>  <i>6.7L 32 Valve Power Stroke V-8 Diesel w/ 6-SPD Torqueshift Automatic Trans. Includes dual lead acid 750CCA batteries (63T - Engine Idle shut down on diesel \$249) (98R - Operator Commanded Regeneration (OCR) \$249)</i> <sup>2</sup>	\$8,400.00 <sup>1</sup>	\$8,479.00 <sup>2</sup>
98R <sup>1</sup>	Engine upgrade - specify <i>Operator Commanded Regeneration (OCR) (req. 99T 6.7L Power Stroke® Diesel engine) OCR allows customer to start a manual diesel particulate filter (DPF) regeneration with the vehicle at idle, OCR is a very specialized option requiring the customer have full knowledge of proper use and actuation-it's highly recommended the dealer and the customer review the most recent super duty diesel supplement for more information, OCR is not recommended for general customer use, includes a \$250msrp and is intended for unique applications where the vehicle is rarely, if at all, driven above 15-20mph and/or experiences extended idle periods-Vocations where the above can occur are oil refining, underground mining, line repair and tree trimming - Customers within those vocations may find it beneficial to have the option of a manual dpf regeneration during a work cycle.</i> <sup>1</sup>	\$249.00 <sup>1</sup>	NA

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

98F <sup>1</sup>	Bi-fuel model - specify <i>CNG/LPG Gaseous Engine Prep Package (avail. on F-250/F-350 w/6.2L gas engine only). Includes hardened engine intake valves and valve seats and bi-fuel manifold.</i> <sup>1</sup>	\$314.00 <sup>1</sup>	NA
98F <sup>1</sup> 98F <sup>2</sup>	CNG model - specify <i>CNG/LPG Gaseous Engine Prep Package (avail. on F-250/F-350 w/6.2L gas engine only). Includes hardened engine intake valves and valve seats and bi-fuel manifold.</i> <sup>1</sup> CNG/LPG GASEOUS PREP <sup>2</sup>	\$314.00 <sup>1</sup>	\$314.00 <sup>2</sup>
CNG <sup>1</sup> 21GGE <sup>2</sup>	CNG conversion (discuss with dealer) <i>Requires 98F: Ford F-250/350 6.2L bifuel/dedicated 15.7 gee system.</i> <sup>1</sup> <i>Bi-Fuel CNG conversion by industry certified florida vendor. System includes approximately 21GGE tank to be mounted in the bed with diamond plate cover. This system also fits well in the cargo area of a utility body. Contact dealer for alternate configurations and additional information.</i> <sup>2</sup>	\$13,600.00 <sup>1</sup>	\$13,000.00 <sup>2</sup>
LPG <sup>1</sup>	LPG conversion (discuss with dealer) <i>Roush CleanTech underbid configuration, includes dropship, may require extra freight with body options.</i> <sup>1</sup>	\$11,764.00 <sup>1</sup>	NA
DC <sup>1</sup> DRYCELL <sup>2</sup>	Battery, auxiliary HD <i>Auxiliary battery. Included with diesel, dual 78a 750cca at no charge. Option is for dealer installed battery on gas engine or service body applications.</i> <sup>1</sup> <i>800cca dry cell per battery - or - (BATT - additional battery installed in bed or compartment of utility body for accessory power \$589)</i> <sup>2</sup>	\$595.00 <sup>1</sup>	\$329.00 <sup>2</sup>
GVWR <sup>1</sup>	Increase to 9,200 lbs. GVWR <i>10K GVWR STANDARD IN BASE VEHICLE</i> <sup>1</sup> <i>10,000 GVWR</i> <sup>2</sup>	Std <sup>1</sup>	Std <sup>2</sup>
52B <sup>1</sup> 52B <sup>2</sup>	Electric brake controller <i>Trailer Brake Controller (TBC; compatible with select electric over hydraulic brakes; 7 &amp; 4-way combo trailer tow socket and bracket deleted w/66D Pickup Box Delete; Std. on DRW). Included in model upgrade package 603a.</i> <sup>1</sup> <i>Req's Tow Pkg (Included with Manf Upgrade pkg)</i> <sup>2</sup>	\$269.00 <sup>1</sup>	\$269.00 <sup>2</sup>
AdvanceTrac <sup>1</sup>	Traction control <i>ADVANCE TRAC WITH RSC (ROLL STABILITY CONTROL)</i> <sup>1</sup>	Std <sup>1</sup>	Std
X3E <sup>1</sup> X3E <sup>2</sup>	Limited slip differential <i>3.73 Electronic-Locking Axle for gas engine. (X3H) 3.31 ratio on diesel.</i> <sup>1</sup> <i>3:73 E-Locking Differential (Request X4M for 4:30 E-Locking) X3H - 3:31 E-Locking differential with Diesel upgrade \$389.</i> <sup>2</sup>	\$389.00 <sup>1</sup>	\$389.00 <sup>2</sup>
F2A,603A <sup>1</sup> 96P <sup>2</sup>	Manufacturer's model upgrade package (specify pkg. bid) <i>F2A Model upgrade includes 603a pkg: Ext Bumper front &amp; rr, chrome Grille-2 bar, chrome, Mirror-man telescope2way fold trail tow w/power/heat glass, heat convex spot mirror.integrate clear lamps /turn sigs, Wheels-F250 18" Cast Alum w/brite hub cover / center ornaments, Windows-rear.fixed privacy glass Int,AC vents blk w/ chrome ring, Audio AM/FM stereo w/SingleCD/MP3 player, 4speakers, Aux audio input jack, Cruise cont steer wheel-mount, Door trim-soft armrest, grab handle, power window/ lock switch, molded upper appliqué &amp; reflect (appliqué and arm rest are accent-color); front map pockets on RegCab, Floor cover-color cordon, full carp Floor mats color coordinated carp, InstrumentCenter-Comp dips,Power Equip Group 1st row fro-seat windows w/one touch up/down, power windows/door locks w/ backlit switches &amp; accsry delay, Front, high series cloth 40/20/40 split bench, sirius sat radio, sync, trailer brake cont, Remote keyless net &amp; Perimeter anti-theft alarm</i> <sup>1</sup> <i>XL Appearance Package Includes: AM/FM Stereo/Single-CD/MP3 Player/Clock w/four (4) speakers, Bright chrome grille surround with black insert, Bright chrome hub(SRW Only), Chrome front / rear step bumper, &amp; Cruise Control -or- (603A - XLT front / rear chrome bumper &amp; Grille, Mirrors manual trailer tow with power/heated glass, integrated clearance lamps/ turn signals. Wheels:F-250/F-350 SRW:18" Cast Aluminum w/Bright Hub Covers/Center Ornaments (4). Fixed privacy glass Interior, Audio:AM/FM/CD/MP3, Cruise control, map pockets, full carpet &amp; mats, Power Equipment Group - 1st row (frontseat) windows w/one-touch up/down, power 2nd row (rear-seat) windows (Crew Cab only), power windows/door locks, cloth 40/20/40 split bench, 20% center under-seat storage. 2nd Row under-seat locking storage, SiriusXM. SYNC® — with 911 Assist® and compass. Trailer Brake Controller Safety/Security Remote keyless entry &amp; Perimeter</i>	\$4,500.00 <sup>1</sup>	\$944.00 <sup>2</sup>

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

	<i>antitheft alarm \$4120) <sup>2</sup></i>		
LS <sup>1</sup> 2S <sup>2</sup>	Seat trim upgrade - specify <i>Vinyl 40/mini-console/40 seat for base vehicle only <sup>1</sup></i> <i>Steel cloth 40/console/40 front seats with mini console (Dealer Installed Leather Trim \$1297) <sup>2</sup></i>	\$354.00 <sup>1</sup>	\$514.00 <sup>2</sup>
90L <sup>1</sup> 90L <sup>2</sup>	Power windows/door locks <i>POWER EQUIPMENT GROUP (90L) Availability: Optional on XL, Standard on XLT and Lariat Not available with: Air Conditioning Delete (572) Includes: Accessory delay, Manually telescoping two-way fold trailer tow mirrors with power/heated glass, heated convex spotter mirror, integrated, clearance lamps/turn signals (54K) (XL &amp; XLT only), Perimeter Anti-Theft Alarm, Power locks, Power 1st row (front-seat) windows w/one-touch up/down, PowerScope® power telescoping, power fold-away trailer tow mirrors with power/heated glass, heated convex spotter mirror, Remote keyless-entry, Upgraded door trim panel on XL Deletes: Passenger-side lock cylinder. Options Available: PowerScope® power telescoping, power fold-away trailer tow mirrors with power/heated glass, heated convex spotter mirror, integrated clearance lamps/turn signals (54F) (XLT only)) <sup>1</sup></i> <i>Includes remote keyless, manual telescoping mirrors w/power heated glass. <sup>2</sup></i>	\$894.00 <sup>1</sup>	\$894.00 <sup>2</sup>
525 <sup>1</sup> 525 <sup>2</sup>	Speed control/tilt steering wheel <i>Tilt is Standard. Speed control included with model upgrade package and 96V xl value package. <sup>1</sup></i> <i>Included with XLT up-grade <sup>2</sup></i>	\$234.00 <sup>1</sup>	\$234.00 <sup>2</sup>
2S <sup>1</sup> LS <sup>2</sup>	Bucket seats in lieu of bench seat <i>Cloth 40/Mini-Console/40 high back bucket (reg cab). Model upgrade comes with full console <sup>1</sup></i> <i>Vinyl 40 / mini-console / 40 <sup>2</sup></i>	\$514.00 <sup>1</sup>	\$354.00 <sup>2</sup>
AS <sup>1</sup> AS <sup>2</sup>	40/20/40 seat in vinyl <i>NA with model upgrade <sup>1</sup></i>	Std <sup>1</sup>	Std <sup>2</sup>
1S <sup>1</sup> 1S <sup>2</sup>	40/20/40 seat in cloth <i>Cloth 40/20/40 Split Bench w/center armrest, cupholder and storage. Included with model upgrade. <sup>1</sup></i> <i>Cloth 40 / 20 / 40 split bench w/ center armrest, cup holder, and storage. <sup>2</sup></i>	\$99.00 <sup>1</sup>	\$99.00 <sup>2</sup>
CARPET <sup>1</sup>	Carpet in lieu of rubber floor covering <i>Requires model upgrade. Color-coordinated carpet and carpeted floor mats (deleted when all-weather floor mats are ordered) <sup>1</sup></i> <i>Included and only available with manufacturers upgrade package. - or - (166 - Delete carpet floor on XLT model upgrade, to provide vinly floor surfaces \$0, NO CHARGE) <sup>2</sup></i>	NC <sup>1</sup>	NA <sup>2</sup>
16S <sup>1</sup>	Floor mats <i>Floor Mats, All-Weather (NA w/166 Carpet Delete) (Deletes Carpeted Mats). Factory All-Weather floor mats require model upgrade 603a. Base model All-Weather floor mats will be dealer installed non factory mats. <sup>1</sup></i> <i>Included and only available with manufacturers upgrade package. (WTF - Dealer installed HD molded floor liner system \$229, includes freight and installation.) <sup>2</sup></i>	\$59.00 <sup>1</sup>	NA <sup>2</sup>
TINT <sup>1</sup>	Deep tinted glass <i>(924) Rear privacy glass included with model upgrade and (433) option. Option is for dealer installed privacy tint. <sup>1</sup></i> <i>Included and only available with sliding rear window option. (DT2 - Dealer Deep Tint Film on side and rear windows \$149 (Add \$49 for windshield strip) <sup>2</sup></i>	\$245.00 <sup>1</sup>	NA <sup>2</sup>
433 <sup>1</sup> 433 <sup>2</sup>	Sliding rear window <i>Manual Sliding w/Privacy Glass (924) <sup>1</sup></i> <i>Includes Privacy Glass on rear window only <sup>2</sup></i>	\$124.00 <sup>1</sup>	\$124.00 <sup>2</sup>
585 <sup>1</sup> 585 <sup>2</sup>	AM/FM radio with single CD <i>Premium Electronic AM/FM Stereo with Single-CD/MP3 Player, Digital Clock and four (4) Speakers (includes auxiliary audio input jack on XL) standard on XLT <sup>1</sup></i> <i>Includes MP3 Player and AUX audio input <sup>2</sup></i>	\$274.00 <sup>1</sup>	\$274.00 <sup>2</sup>

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

	On-Star <i>(91M 62D - Ford Hands free phone option: SYNC® – Voice-Activated Communications and Entertainment System w/911 Assist® (includes USB port, AppLink™ and compass: req. 585 AM/FM/CD. or 96P XL Appearance Pkg. on XL \$364) 2</i>	NA	NA <sup>2</sup>
39S <sup>1</sup>	Satellite radio <i>Requires model 603A upgrade package and must be specified. 1 Included and only available with manufactures upgrade package 2</i>	NC <sup>1</sup>	NA <sup>2</sup>
3K <sup>1</sup> 3K <sup>2</sup>	Additional Key(s) or Key Fob(s) when applicable <i>Use \$275 for programmed remote fob. Simple key included in RFC. 1 Dealer provided third key. (3KR - Dealer provided third key and remote when ordering with power equipment group \$373) 2</i>	\$126.00 <sup>1</sup>	\$140.00 <sup>2</sup>
	Side air bags	Std	Std
18B <sup>1</sup> 18B <sup>2</sup>	Cab steps <i>6" Angular Black Molded-In-Color Running Board 1</i>	\$319.00 <sup>1</sup>	\$319.00 <sup>2</sup>
LSL <sup>1</sup> L-SPOT <sup>2</sup>	Left-hand pillar mounted 6" spotlight with clear halogen bulb, dealer installed <i>For Go-Light remote operated spot light add \$700 includes bed mounted pole in lieu of roof mount. 1 (DOOR MOUNT) Add \$175 for LED light 2</i>	\$495.00 <sup>1</sup>	\$480.00 <sup>2</sup>
2SL <sup>1</sup> LR-SPOT <sup>2</sup>	Left & right-hand pillar mounted 6" spotlight with clear halogen bulb, dealer installed <i>for Go-Light remote operated spot light add \$700 includes bed mounted Pole in lieu of roof mount. 1 (DOOR MOUNT) Add \$350.00 for LED lights 2</i>	\$800.00 <sup>1</sup>	\$900.00 <sup>2</sup>
VV <sup>1</sup> RS <sup>2</sup>	Vent visors - stick-on style	\$130.00 <sup>1</sup>	\$145.00 <sup>2</sup>
RS <sup>1</sup> RSF <sup>2</sup>	Rainshields - flange style <i>Not available with power window group 2</i>	\$130.00 <sup>1</sup>	\$145.00 <sup>2</sup>
BS <sup>1</sup> BS <sup>2</sup>	Bug shield <i>Dealer provided black Bug Shield 2</i>	\$195.00 <sup>1</sup>	\$197.00 <sup>2</sup>
	Trailer tow mirrors <i>For power telescopic 54F use \$164. Requires model upgrade package 603a. (54K) power glass included with 90L 1</i>	Std <sup>1</sup>	Std
WGG <sup>1</sup> WGG <sup>2</sup>	Wrap-around grille guard <i>Warn brand or equal 1 Add \$300.00 for winch mount plate 2</i>	\$1,296.00 <sup>1</sup>	\$995.00 <sup>2</sup>
TBX <sup>1</sup> ATB <sup>2</sup>	Heavy duty aluminum tool box <i>AA brand, single lid locking with 2 keys 1 Dealer Provided HD Aluminum Diamond Plate Tool Box 14" Depth. (18" Depth \$469) AND (ADD \$50 to 14" or 18" for low profile tool box.) 2</i>	\$395.00 <sup>1</sup>	\$429.00 <sup>2</sup>
85L <sup>1</sup> 85L <sup>2</sup>	Bedliner <i>Plastic drop in liner. NA with 66D 1 Plastic drop in bed liner. (Dealer provided drop in bed liner \$325) 2</i>	\$349.00 <sup>1</sup>	\$349.00 <sup>2</sup>
85S <sup>1</sup> 85S <sup>2</sup>	Spray-on bedliner for pick-up truck (Rhino, Line-X or approved equivalent) <i>Factory supplied light duty spray liner. NA with 66D. For HD liner at increased thickness us \$565 1 Factory THIN spray-on-bed liner w/ plastic tailgate cover. (SOB - Dealer provided HD Spray-on-Bedliner \$579.00) 2</i>	\$494.00 <sup>1</sup>	\$494.00 <sup>2</sup>

<b>VEHICLE:</b>	F-250 SD (F2A)			
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TCD <sup>1</sup> TBM <sup>2</sup>	All terrain tread tires 4 LT265/70Rx17EOWL A/T includes black side wall spare <sup>1</sup> LT245/75RX17E BSW All Terrain. -or- (TCD - LT 265/70R17E OWL All Terrain tires \$454) <sup>2</sup>	\$454.00 <sup>1</sup>	\$164.00 <sup>2</sup>
N2 <sup>1</sup> N2 HD <sup>2</sup>	Nitrogen filled tires including spare tire	\$196.00 <sup>1</sup>	\$209.00 <sup>2</sup>
SPACEKAP <sup>1</sup> LEER DCC <sup>2</sup>	Steel truck cap 8' Compak (Transferable Service Body). Body can be placed in any 8' truck bed. Easily transferable. Also available for 6' truck bed. Add Contractor Bin Pkg for \$1,600. Add Service Pkg for \$3000. <sup>1</sup> Leer Deluxe Aluminum Commercial Topper (WHITE), 23" High, Front Picture Window, Full Length Side Doors with Driver and Passenger Side Tool Boxes including 1 Vertical and 1 Horizontal Divider, Rear lift Up Door with Picture Window, Ladder Rack, 20" 12v LED Interior Light Bar. (Upgrade to Fiberglass 100RCC Commercial Topper Painted to Match \$500) (Upgrade to Double Swing Barn Doors w/ vertical glass on Rear in lieu of std lift up door \$379 **aluminum tops only**) <sup>2</sup>	\$8,800.00 <sup>1</sup>	\$3,279.00 <sup>2</sup>
	Tow hooks	Std	Std
LG12 <sup>1</sup> LG13 <sup>2</sup>	1,200 lb. lift gate For pickup bed or service body application. Tommy gate brand supplied with Knapheide options and Theiman model combined with Reading body options. <sup>1</sup> Tommy Gate G2-1300 LB. <sup>2</sup>	\$2,950.00 <sup>1</sup>	\$3,244.00 <sup>2</sup>
8KW <sup>1</sup> 8KW <sup>2</sup>	8,000 lb. winch with remote Requires WGG, Warn Brand winch <sup>1</sup> Requires Wrap around grill w/ winch mount plate <sup>2</sup>	\$1,200.00 <sup>1</sup>	\$1,195.00 <sup>2</sup>
TOWPKG <sup>1</sup> CLVWC <sup>2</sup>	Trailer towing package, to include heavy duty flashers, wiring for trailer plug (7 prong round), and class IV frame mounted trailer hitch with 2" square removable receiver, 1" shank with 2" ball. Does not include trailer tow mirrors. May be dealer installed. Includes all manufacturer's standard towing components; exceeds spec. Upgrades to complete package with 2.5" receiver with sleeve and hardware (solid HD shank and solid Pin&Clip). For pintle ball combination add \$245. Tow mirrors are standard equipment. Recommend Locking differential and factory electric brake controller integrated into dash. Specify if 6 way or custom plug (wiring) to be added. <sup>1</sup> Replaces Factory, provides HD Class V Titan 2.5" Receiver, 7 Pin Wire Harness, Solid Steel Shank Draw Bar, 2 & 5/16" Ball, pin & Clip. (Applicable with all body options) - or - (53W 15J - Factory gooseneck hitch kit, pre-installed \$619) - or - (53W 15L - Factory 18k 5th wheel hitch kit, pre-installed \$1664) <sup>2</sup>	\$865.00 <sup>1</sup>	\$670.00 <sup>2</sup>
SBS <sup>1</sup> USOB <sup>2</sup>	Spray-on bedliner for utility body For rear bumper add \$100. For Drop down doors both sides add \$175. HD LINEX Brand. <sup>1</sup> HD spray on bed liner for cargo area of utility body only, ADD \$279 for box tops. <sup>2</sup>	\$785.00 <sup>1</sup>	\$747.00 <sup>2</sup>
SLUS 98ASW <sup>1</sup> WS298 SW <sup>2</sup>	Knapheide, Reading or approved equivalent utility body - specify Reading Classic II: See (31b) Reading ship through. Flip top lids add \$900. A60 coasting weight pressed steel diamond plate floor and tailgate inner panel, slam action tail gate, pooched bumper, HD compartment 18g a doors, rectangular rear lighting. Includes 66D bed credit. <sup>1</sup> Warner Select II Service Body 8' SRW Painted White (includes box and bumper credit) Body Upgrades-- Add \$875 for Flip Top Lids, \$815 for LED compartment lighting. ** Includes complete vehicle certification from final stage manufacturer ** <sup>2</sup>	\$5,800.00 <sup>1</sup>	\$5,331.00 <sup>2</sup>
696J <sup>1</sup> K696J <sup>2</sup>	Manufacturer's standard service unibody, 14 gauge construction - specify. May be dealer installed. (NOTE: If you are ordering a service body, we are advising you to contact your awarded vendor.) Knapheide Brand service body. See (31v) Knapheide ship through. Fliptop lids add \$800, master locks add \$500, cabinet lights \$500, power locks \$850. NA with PC. Rugged 14gauge two-sided A-40 galvanized steel body shell with a six year warranty. Complete undercoating provides an additional layer of corrosion protection. Double panel door construction combined with stainless steel rotary latches. Includes 66D bed credit. <sup>1</sup> Knapheide SRW Painted Utility Body, (includes box and bumper credit) Body Upgrades-- Add \$831 for Flip Top Lids, \$314 for T-Handles, \$588 for lights inside compartments, \$404 for Master Locking System, \$159 for pair of Knaplock padlocks keyed to Ford factory ignition key ** Includes complete vehicle certification from	\$5,400.00 <sup>1</sup>	\$5,215.00 <sup>2</sup>

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

	<i>final stage manufacturer ** 2</i>		
SLU-98ASW <sup>1</sup> U98ASW SL <sup>2</sup>	<p>Manufacturer's standard service modular body, 18 gauge construction - specify. May be dealer installed. (NOTE: If you are ordering a service body, we are advising you to contact your awarded vendor.)</p> <p><i>Reading sl series with complete stainless steel rotary locks with paddle handles or stainless steel 3point t-handle locks exclusive dual-pro door seal system stainless steel bolt-on block hinges seamless wheelhouse panel incandescent stop, tail, turn and clearance lightslam action tailgate with diamond pattern facer, and stainless steel knee brace hardware. See (31b) Reading ship through. flip top lids add \$900. Includes 66d bed credit. 1</i></p> <p><i>Reading Standard Line Factory Powder Coated White (includes box and bumper credit) Body Upgrades -- Add \$913 for Flip Top Option, \$674 Lighted Compartments, \$893 for Master Locking System. ** Includes complete vehicle certification from final stage manufacturer ** 2</i></p>	\$5,200.00 <sup>1</sup>	\$5,615.00 <sup>2</sup>
PC <sup>1</sup> DA98 <sup>2</sup>	<p>Powder coating for utility body</p> <p><i>Included on SUL98ASW series in red or white. Reading brand only 1</i></p> <p><i>Reading Classic II dealer advantage factory Pwdr Coated White -- Add \$897 for Flip Top Lids, \$674 for lighted compartments, \$828 Master Locking System -or- (DA98 Aluminum - Classis II dealer advantage ALUMINUM utility body ***45% weight savings*** \$7286 -- ADD \$1352 for Flip Top Lids, \$674 for lighted compartments, \$1131 for Latchmatic remote locking system. ** Includes complete vehicle certification from final stage manufacturer ** 2</i></p>	\$550.00 <sup>1</sup>	\$6,685.00 <sup>2</sup>
FTC <sup>1</sup> FTC <sup>2</sup>	<p>Fiberglass tonneau cover (painted to match)</p> <p><i>ARE brand or equal. For Roll n Lock, or RETRAX bed cover option use \$1396 1</i></p> <p><i>(Add \$1338 for Bed Slider with Rubber Mat and 4" Sides) -or- ( Roll-N-Lock cover ADD \$297 in lieu of fiberglass tonneau) 2</i></p>	\$1,496.00 <sup>1</sup>	\$1,495.00 <sup>2</sup>
FCHT <sup>1</sup> FCH <sup>2</sup>	<p>Fiberglass cab high topper with front, side and rear windows (painted to match)</p> <p><i>ARE, Century brand or equal. For flip windows add \$425 1</i></p> <p><i>Add \$375 for side access windows in lieu of fixed 2</i></p>	\$1,795.00 <sup>1</sup>	\$1,695.00 <sup>2</sup>
942 <sup>1</sup> 942 <sup>2</sup>	<p>Daytime running lights</p>	\$44.00 <sup>1</sup>	\$44.00 <sup>2</sup>
	<p>Immobilize daytime running lights</p> <p><i>Don't order 942 2</i></p>	Std	NC <sup>2</sup>
CS <sup>1</sup> HAR <sup>2</sup>	<p>Cab shield headache rack (protects back of cab)</p> <p><i>Expanded metal cab shield (add \$300 for strobe beacons mounted on each side of cab shield) 1</i></p>	\$545.00 <sup>1</sup>	\$497.00 <sup>2</sup>
PRPU <sup>1</sup> PRT <sup>2</sup>	<p>Pipe rack w/expanded metal basket over cab (for pickup bed)</p> <p><i>(1200ATR - Weather Guard aluminum material rack with cross members \$1479 **does not include expanded metal basket over cab**) 2</i></p>	\$1,796.00 <sup>1</sup>	\$1,790.00 <sup>2</sup>
PRSB <sup>1</sup> PRU <sup>2</sup>	<p>Pipe rack w/expended metal basket over cab (for utility body)</p>	\$1,796.00 <sup>1</sup>	\$1,790.00 <sup>2</sup>
SLR <sup>1</sup> SSMLR <sup>2</sup>	<p>Single ladder rack side mounted (specify street or curbside)</p> <p><i>Single Side Mtd Ladder Rack 2</i></p>	\$796.00 <sup>1</sup>	\$738.00 <sup>2</sup>
153 <sup>1</sup> 153 <sup>2</sup>	<p>Front license bracket</p> <p><i>(Factory ordered only, dealer provided \$79) 2</i></p>	NC <sup>1</sup>	NC <sup>2</sup>
76C <sup>1</sup> 76C <sup>2</sup>	<p>Backup alarm, factory installed</p>	\$124.00 <sup>1</sup>	\$124.00 <sup>2</sup>
BUA <sup>1</sup> BUA <sup>2</sup>	<p>Backup alarm, dealer installed</p> <p><i>Whelen brand or equal. 1</i></p> <p><i>Dealer provided 90 db back up alarm 2</i></p>	\$130.00 <sup>1</sup>	\$179.00 <sup>2</sup>

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
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<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00
76V <sup>1</sup> 76V <sup>2</sup>	Backup camera with 3.5" LCD (rear mounted camera to provide wide angle field of vision at rear of vehicle) - factory installed <i>Rear View Camera (Electrochromic Mirror w/video display on XL/XLT; XLT req. 96I XLT Interior Pkg \$794., 17V XLT Value Pkg \$1344. or 17P XLT Premium Pkg. \$2884; NA w/66D Pick Up Box Delete or 557 Airbag Delete)</i> <sup>1</sup> <i>Requires factory tailgate, BASE model ONLY.</i> <sup>2</sup>		\$539.00 <sup>1</sup>	\$539.00 <sup>2</sup>
BUC <sup>1</sup> BUC <sup>2</sup>	Backup camera with 3.5" LCD (rear mounted camera to provide wide angle field of vision at rear of vehicle) - dealer installed <i>Dealer Provided Rear Vision camera with day/night view, specify rear view mirror or dash mounted monitor</i> <sup>2</sup>		\$695.00 <sup>1</sup>	\$679.00 <sup>2</sup>
31V.31B <sup>1</sup> FUEL TOOL <sup>2</sup>	Optional equipment - specify <i>Second Stage Manufacturer ship through for Reading (31b) at \$543 and Knapheide (31v) at \$260. Includes certification, second stage MSO, and weight slip when combined with body options contained in specification. For all other factory registered Ship thru destination codes please contact dealer.</i> <sup>1</sup> <i>Fuel &amp; Tool Box Combo includes: L Shape Fuel Tank, Tool Box, Electric transfer pump, Hose, Nozzle, and flow meter - (ADD SAFE-T - Fire Extinguisher, First Aid Kit, Road Triangles \$299)</i> <sup>2</sup>		\$543.00 <sup>1</sup>	\$1,887.00 <sup>2</sup>
SAFET <sup>1</sup> RSL <sup>2</sup>	Optional equipment - specify <i>SAFETY PACKAGE: Fire extinguisher, first aid and road LED KIT, other items to consider: gas air compressor 30 gallon 20cfm (\$3660). TOPBOX Side Toolbox 96" (\$749) top side pu contractor box with drawers (6: (\$896), INVERTER 1500 WATT (\$566), 2000 (\$696), 3000 (\$1626), 5000 with aux battery (\$1810). <b>CONEHOLDER: (\$115)</b> VANAIR Generator 5K compressor combo (\$5700) DUMP for 56ca with tarp (\$5900) VMAC: 70cfm under hood compressor (\$10995).</i> <sup>1</sup> <i>Roadside lighting package Includes: Four corner hide away LED kit, 8 LED traffic advisor mounted in rear window glass, (AMBER/CLEAR) Grille lights, wired to factory upfitter switches or 6-switch controller. -or- (ALB-TA - Amber LED Light Bar with Front Takedowns, Side Alley lights, and Rear Arrow Stick Traffic Advisor. - ADD - (GL - Go Light with Dash Mounted Remote for \$628) - ADD - ( 806-1210-UB - 1000 watt pure sine wave inverter installed in curbside FRONT compartment of utility body. \$798)</i> <sup>2</sup>		\$595.00 <sup>1</sup>	\$1,729.00 <sup>2</sup>
87T <sup>1</sup> JOTTO <sup>2</sup>	Optional equipment - specify <i>Ford Telematics Powered by Telogis® (87T) Availability: Optional on XL, XLT, Lariat, Platinum and King Ranch® Includes: Onboard device that tracks vehicle location, speed and idle time w/optional vehicle diagnostics and maintenance reports, One (1) year service subscription of Ford Telematics Powered by T elogis®</i> <sup>1</sup> <i>Jotto Computer Mount Stand ( 806-1206 - 600w pure sine wave inverter installed in between driver/passenger front seats \$429.)</i> <sup>2</sup>		\$799.00 <sup>1</sup>	\$485.00 <sup>2</sup>
RPO <sup>1</sup> 3200 C <sup>2</sup>	Optional equipment - specify <i>Any factory option not listed within specification is eligible for the discount amount indicated as a credit per item off the manufacturer's current MSRP schedule per fleet.ford.com</i> <sup>1</sup> <i>Stellar EC 3200 11,500 ft-lb E/H crane (Requires Knapheide Std Utility Body). - or - (Liberator LIB 3200 10,000 ft-lb E/H crane \$16,721 (Requires Warner Body).) *** Both Cranes Include: Crane Reinforcements, Spring Build up, Manual Outriggers &amp; Boom Rest ***</i> <sup>2</sup>		(\$1.00) <sup>1</sup>	\$15,099.00 <sup>2</sup>
RFC <sup>1</sup> 3BLS <sup>2</sup>	Optional equipment - specify <i>Regional freight charge per vehicle for alternative zone purchasing per section 3.54 paragraph A, item 1b. Per terms and specifications 1.14, pre-delivery service inspection and all delivery requirements, plus additional fleet simple key included. Not applicable when agency is domiciled in same zone as the base award. Amount is calculated via statistical algorithm utilizing trending market sales data and median variable freight costs within certain statistical mileage data points within the state of Florida. Any dollar volume credit to this unit cost, where applicable, is derived per section 3.55</i> <sup>1</sup> <i>3rd Brake Light Safety Pulse (Pulses 3rd Brake Light (4) times upon application of brake pedal to increase driver awareness behind you when stopping)</i> <sup>2</sup>		\$426.00 <sup>1</sup>	\$229.00 <sup>2</sup>
LABOR <sup>1</sup> LABOR <sup>2</sup>	Labor rate per hour <i>Labor rate per hour. Refer to Emergency lighting price submission for schedule. See dealer quote for itemization. Includes professional EVT certified installation, wire loom, connectors, prep kit and consultation</i> <sup>1</sup> <i>(Labor Rates Based on Single Vehicle Build)</i> <sup>2</sup>		\$145.00 <sup>1</sup>	\$105.00 <sup>2</sup>



<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00
TEMP <sup>1</sup> TEMP <sup>2</sup>	Temporary tag		\$6.00 <sup>1</sup>	\$45.25 <sup>2</sup>
TX <sup>1</sup> TRANS <sup>2</sup>	Transfer existing registration (must provide tag number) <i>Per Florida Statute 320.08, A dealer can only charge the purchaser the actual fees authorized by statute for title and registration transfers. These will be the fees charged by the county tax collector's office for transferring title and registrations. Overcharging of these fees without refunding the overcharge is unlawful and could result in disciplinary action against the dealer's license. The dealer is responsible for refunding the overcharged amount to the purchaser. Private tag agency fees cannot be included in the category of title and registration fees: DHSMV Procedure TL-10. [TL-10:http://www3.flhsmv.gov/DMV/Proc/TL/TL-10.PDF]</i> <sup>1</sup> <i>Includes temp tag &amp; two way overnight shipping for signature.</i> <sup>2</sup>		\$85.00 <sup>1</sup>	\$168.85 <sup>2</sup>
TAG <sup>1</sup> TAG <sup>2</sup>	New state tag (specify state, county, city, sheriff, etc.) <i>Per Florida Statute 320.08, A dealer can only charge the purchaser the actual fees authorized by statute for title and registration transfers. These will be the fees charged by the county tax collector's office for transferring title and registrations. Overcharging of these fees without refunding the overcharge is unlawful and could result in disciplinary action against the dealer's license. The dealer is responsible for refunding the overcharged amount to the purchaser. Private tag agency fees cannot be included in the category of title and registration fees: DHSMV Procedure TL-10. [TL-10:http://www3.flhsmv.gov/DMV/Proc/TL/TL-10.PDF]</i> <sup>1</sup> <i>Includes temp tag &amp; two way overnight shipping for signature.</i> <sup>2</sup>		\$130.00 <sup>1</sup>	\$220.95 <sup>2</sup>
MP575 <sup>1</sup> BMP345 <sup>2</sup>	Maintenance Plan - specify <i>5 Year 75,000 mile Premium Maintenance Plan. 15 service visits at 5000 mile intervals for vehicles with Gas Engine, zero deductible. For GAS Chassis Cab &amp; Cutaway vehicles use \$2230. ADD \$300 FOR Police, Emergency and Fire Use. 5 Year 75,000 mile Premium Diesel Maintenance plan \$3675. 15 Maintenance plan visits at 5000 mile intervals for vehicles with Diesel Engine, zero deductible. For DIESEL Chassis Cab &amp; Cutaway vehicles use \$3525. ADD \$300 FOR Police, Emergency and Fire Use</i> <sup>1</sup> <i>3 yr 45,000 mile(5000 mile interval, includes a total of (9) visits) gas engine Maintenance Plan. (ADD \$780 for diesel engine)</i> <sup>2</sup>		\$1,860.00 <sup>1</sup>	\$580.00 <sup>2</sup>
MP675 <sup>1</sup> BMP575 <sup>2</sup>	Maintenance Plan - specify <i>6 Year 75,000 mile Premium Maintenance Plan. 15 service visits at 5000 mile intervals for vehicles with Gas Engine, zero deductible. For GAS Chassis Cab &amp; Cutaway vehicles use \$2280. ADD \$300 FOR Police, Emergency and Fire Use. 6 Year 75,000 mile Premium Diesel Maintenance Plan, \$3715. 15 Maintenance plan visits at 5000 mile intervals for vehicles with Diesel Engine, zero deductible. For DIESEL Chassis Cab &amp; Cutaway vehicles use \$3580. ADD \$300 FOR Police, Emergency and Fire Use</i> <sup>1</sup> <i>5 yr 75,000 mile(5000 mile interval, includes a total of (15) visits) gas engine Maintenance Plan.(ADD \$990 for diesel engine)</i> <sup>2</sup>		\$1,905.00 <sup>1</sup>	\$910.00 <sup>2</sup>
MP610 <sup>1</sup> BMP6100 <sup>2</sup>	Maintenance Plan - specify <i>6 Year 100,000 mile Premium Maintenance Plan. 20 service visits at 5000 mile intervals for vehicles with Gas Engine, zero deductible. For GAS Chassis Cab &amp; Cutaway vehicles use \$2845. ADD \$500 FOR Police, Emergency and Fire Use. 6 Year 100,000 mile Premium Diesel Maintenance Plan \$4320. 20 Maintenance plan visits at 5000 mile intervals for vehicles with Diesel Engine, zero deductible. For DIESEL Chassis Cab &amp; Cutaway vehicles use \$4515. ADD \$500 FOR Police, Emergency and Fire Use</i> <sup>1</sup> <i>6 yr 100,000 mile(5000 mile interval, includes a total of (20) visits) gas engine Maintenance Plan.(ADD \$1210 for diesel engine)</i> <sup>2</sup>		\$2,400.00 <sup>1</sup>	\$1,140.00 <sup>2</sup>
EB575 <sup>1</sup> EC575 <sup>2</sup>	Warranty - specify <i>5 Yr 75,000 mile zero deductible BASECare plan. 5 Yr 100,000 mile zero deductible use \$2385. Complete pricing schedule available upon request. Prices quoted per FordMoCo Florida Retail ESP April 2015 Pricing Guide. 5 year, 75,000 mile Chassis GAS BaseCare ESP at zero deductible use \$2640. 5 year, 100,000 mile Chassis BaseCare ESP at zero deductible use \$3225. Add \$755 w/ 66d for Emergency (Fire, Amb, Police), Shuttle, or TowTruck, \$605 with Pickup<sup>1</sup> <i>Extra Care 5 yr 75k mile extended warranty (\$0 Ded)(ADD \$555 for fire/emergency use).</i><sup>2</sup></i>		\$1,725.00 <sup>1</sup>	\$2,015.00 <sup>2</sup>
EE575 <sup>1</sup> PC575 <sup>2</sup>	Warranty - specify <i>5 Yr 75,000 mile zero deductible EXTRACare plan. 5 Yr 100,000 mile zero deductible use \$2900. Complete pricing schedule available upon request. Prices quoted per FordMoCo Florida Retail ESP April 2015 Pricing Guide. 5 year, 75,000 mile Chassis GAS ExtraCare ESP at zero deductible use \$2945. 5 year, 100,000 mile Chassis ExtraCare ESP at zero deductible use \$3655. Add \$755 w/ 66d for Emergency (Fire, Amb, Police), Shuttle, or TowTruck \$555 with Pickup<sup>1</sup></i>		\$2,015.00 <sup>1</sup>	\$2,825.00 <sup>2</sup>

<b>VEHICLE:</b>	F-250 SD (F2A)			
<b>DEALER:</b>	Duval Ford	Duval Ford	Alan Jay Ford	Duval Ford
<b>ZONE:</b>	★Western	★Northern	★Central	Southern
<b>BASE PRICE:</b>	\$19,625.00	\$19,625.00	\$19,737.00	\$20,449.00

	<i>Premium Care 5 yr 75k mile extended warranty (\$0 Ded)(ADD \$555 for fire/emergency use). <sup>2</sup></i>		
EP575 <sup>1</sup> PC6100 <sup>2</sup>	<p>Warranty - specify                      5 Yr 75,000 mile zero deductible PREMIUMCare plan. 5 Yr 100,000 mile zero deductible use \$3595.                      Complete pricing schedule available upon request. Prices quoted per FordMoCo Florida Retail ESP April 2015 Pricing Guide. 5 year, 75,000 mile Chassis GAS PremiumCare ESP at zero deductible use \$3415. 5 year, 100,000 mile Chassis PremiumCare ESP at zero deductible use \$4235. Add \$755 w/ 66d for Emergency (Fire, Amb, Police), Shuttle, or TowTruck \$505 with pickup<sup>1</sup>                      Premium Care 6 yr 100k mile extended warranty (\$0 Ded)(ADD \$555 for fire/emergency use). <sup>2</sup></p>	\$2,825.00 <sup>1</sup>	\$3,710.00 <sup>2</sup>
FB575 <sup>1</sup> EC575 <sup>2</sup>	<p>Diesel Warranty - specify                      5 Yr 75,000 mile zero deductible BASECare plan \$1830. 5 Yr 100,000 mile zero deductible use \$2555.                      Complete pricing schedule available upon request. Prices quoted per FordMoCo Florida Retail ESP April 2015 Pricing Guide. 5 year, 75,000 mile Chassis DIESEL BaseCare ESP at zero deductible is \$2925. 5 year, 100,000 mile Chassis BaseCare ESP at zero deductible is \$3950. Add \$755 w/ 66D for Emergency (Fire, Amb, Police), Shuttle, or TowTruck, \$605 with Pickup<sup>1</sup>                      Diesel Extra Care 5 yr 75k mile extended warranty (\$0 Ded) (ADD \$555 for fire/emergency use). <sup>2</sup></p>	\$1,830.00 <sup>1</sup>	\$2,150.00 <sup>2</sup>
FE575 <sup>1</sup> PC575 <sup>2</sup>	<p>Diesel Warranty - specify                      5 Yr 75,000 mile zero deductible EXTRACare plan \$2150. 5 Yr 100,000 mile zero deductible use \$3115.                      Complete pricing schedule available upon request. Prices quoted per FordMoCo Florida Retail ESP April 2015 Pricing Guide. 5 year, 75,000 mile Chassis DIESEL ExtraCare ESP at zero deductible is \$3210. 5 year, 100,000 mile Chassis ExtraCare ESP at zero deductible is \$4525. Add \$755 w/ 66d for Emergency (Fire, Amb, Police), Shuttle, or TowTruck \$555 with Pickup<sup>1</sup>                      Diesel Premium Care 5 yr 75k mile extended warranty (\$0 Ded)(ADD \$555 for fire/emergency use). <sup>2</sup></p>	\$2,150.00 <sup>1</sup>	\$3,010.00 <sup>2</sup>
FP575 <sup>1</sup> PC6100 <sup>2</sup>	<p>Diesel Warranty - specify                      5 Yr 75,000 mile zero deductible PREMIUMCare plan \$3010. 5 Yr 100,000 mile zero deductible use \$3705.                      Complete pricing schedule available upon request. Prices quoted per FordMoCo Florida Retail ESP April 2015 Pricing Guide. 5 year, 75,000 mile Chassis DIESEL PremiumCare ESP at zero deductible is \$3740. 5 year, 100,000 mile Chassis PremiumCare ESP at zero deductible is \$5320. Add \$755 w/ 66d for Emergency (Fire, Amb, Police), Shuttle, or TowTruck \$505 with pickup<sup>1</sup>                      Diesel Premium Care 6 yr 100k mile extended warranty (\$0 Ded) (ADD \$555 for fire/emergency use). <sup>2</sup></p>	\$3,010.00 <sup>1</sup>	\$3,835.00 <sup>2</sup>

## **Fifth Order of Business**



CORAL SPRINGS IMPROVEMENT DISTRICT

WATER TREATMENT PLANT

## MEMORANDUM

TO: Kenneth Cassel

DATE: 08/04/2016

FROM: Joe Stephens– Chief Operator

REFERENCE: Membrane Cleaning chemicals

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Ken,

We are currently piggybacking off of a contract that Palm Beach County has in place with American Water Chemicals for our high Ph membrane cleaning chemical. The contract is for C-237 and we use C-226 (please find the equivalence letter attached that you already approved). Based on our specific water composition and cleaning studies C-234 was selected as our low Ph membrane cleaner and has been very effective when used in combination with the 226. We had previously piggybacked off of the same PBC contract for the 234 however they did not include it in their renewal this time around. It is preferable to secure the cleaning chemicals from one vendor as the responsibility and accountability can be clear if a problem should arise.

The estimated annual cost for each is as follows:

AWC C-226 – \$13,600

AWC C-234 - \$10,200

\*This covers one cleaning per train per year.

1. AWC C-234

low-foaming low pH liquid membrane cleaning chemical

Blend of organic and inorganic acids

Must not contain any citric acid

Achieves pH 1.7 at 2% solution with permeate

Light yellow to amber liquid

Removes carbonate and phosphate and metal hydroxide scales

NSF 60 approved for use with membranes in potable water systems. NSF certifications under UL are not acceptable.

Supplier and Manufacturer must be ISO 9000 certified (must show proof of certification)

Product must be manufactured in an ISO 9000 certified facility (must show proof of certification)

Sold and delivered in 55 gallon drums

Cost must be in dollars per gallon

Minimum of 55 gallons per order (165 gallons per order will be common)

2. AWC C-226

High pH powder membrane cleaning chemical

Blend of dispersants, surfactants, and other biofilm penetrating ingredients

Must not contain any percarbonates (or other peroxide based chemicals) and must be free of metasilicate (or any other silicates)

Achieves pH 12 at 2% solution with permeate

White, granular powder

Removes organic and biological fouling

NSF 60 approved for use with membranes in potable water systems. NSF certifications under UL are not acceptable.

Supplier and Manufacturer must be ISO 9000 certified (must show proof of certification)

Product must be manufactured in an ISO 9000 certified facility (must show proof of certification)

Cost must be provided in dollars per pound

Orders may be placed for 55 gallon drums or 5 gallon buckets and the cost must be the same for either

Minimum of 400 lbs per order (1200 lbs per order will be common)

Estimated annual usage for each:

C-234 495 gallons/yr

C-226 3,600 lbs/yr



# Cleaning Study Report

**Date:**

**9-17-15**

**Tests Performed For:**

**Manufacturer: Toray**

**Model: TMG20-430**

**Membranes Cleaned:**

**S#101031145 Position: Train 1 Stage 1 Lead element**

**S#101011233 Position: Train 1 Stage 2 Tail element**

**Alkema LSA#: 0215079**

**Tests Performed By:**

**Gaudencio Cabreros**

**Joshua Utter**



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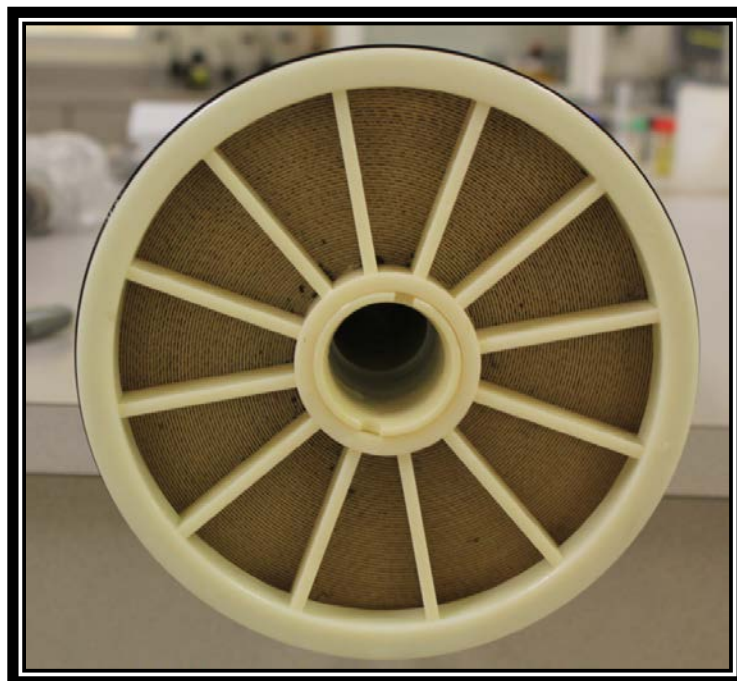
**Membrane Inspection of S#101031145**

Position: Train 1, Stage 1, Lead element

The membrane arrived at Alkema by courier, intact and in good condition, wrapped in bubble wrap, and black plastic bags. The feed and concentrate ATDs appeared clean to the eye, though black particles were observed in the feed end feed channels.



**Figure 1: The membrane arrived intact and in good condition.**

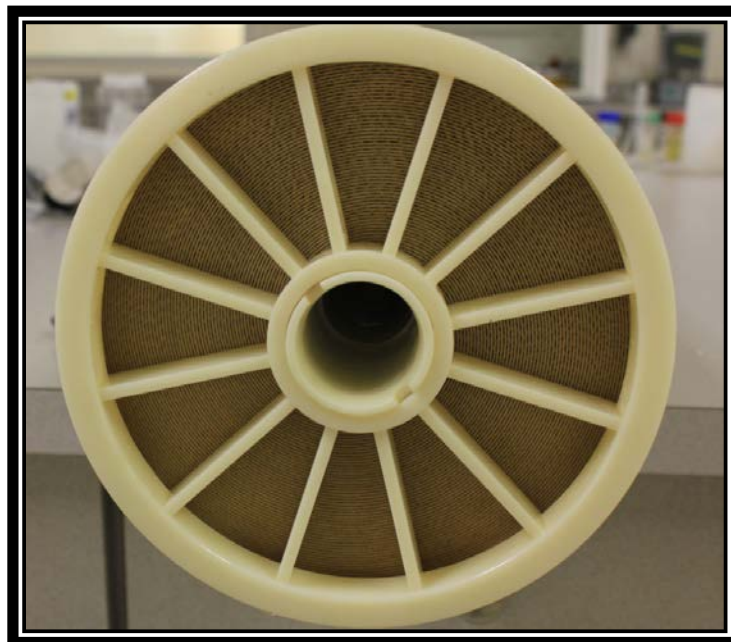


**Figure 2: The Feed end ATD.**





**Figure 3** Black deposits were observed in the feed end feed channels.



**Figure 4:** The concentrate ATD.

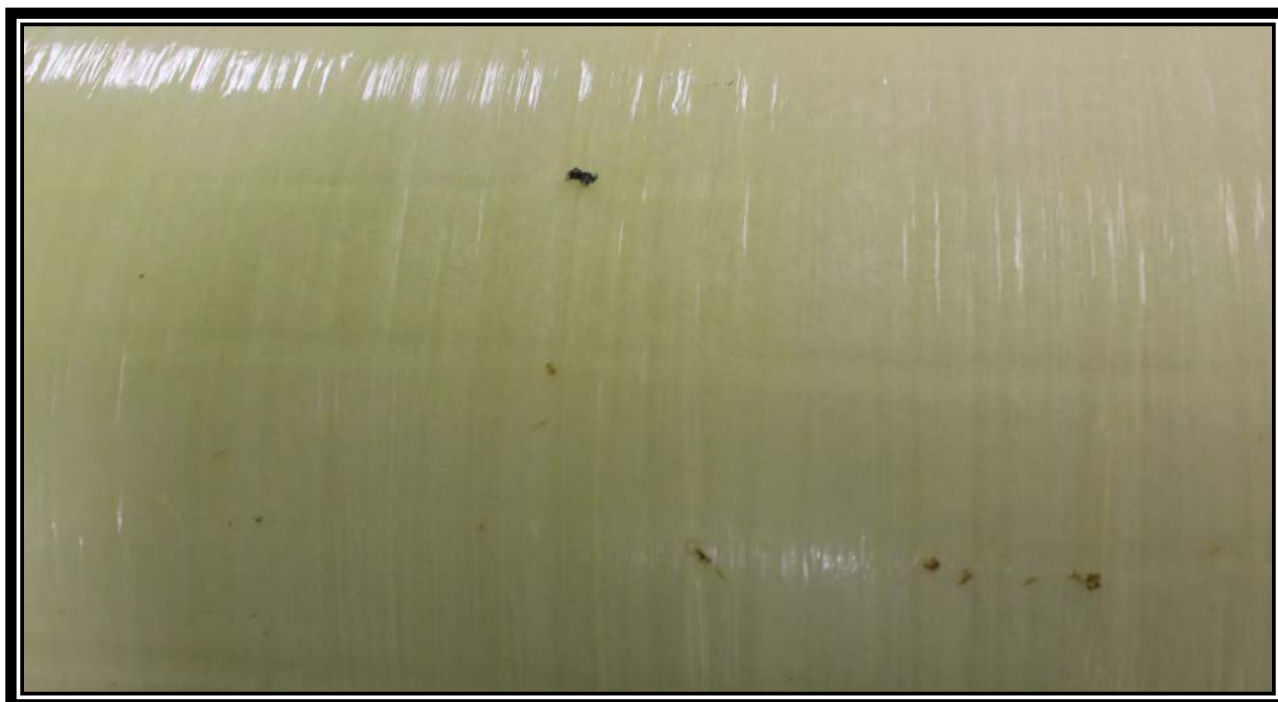
## Membrane Inspection of S#101011233

Position: Train 1, Stage 2, Tail Element

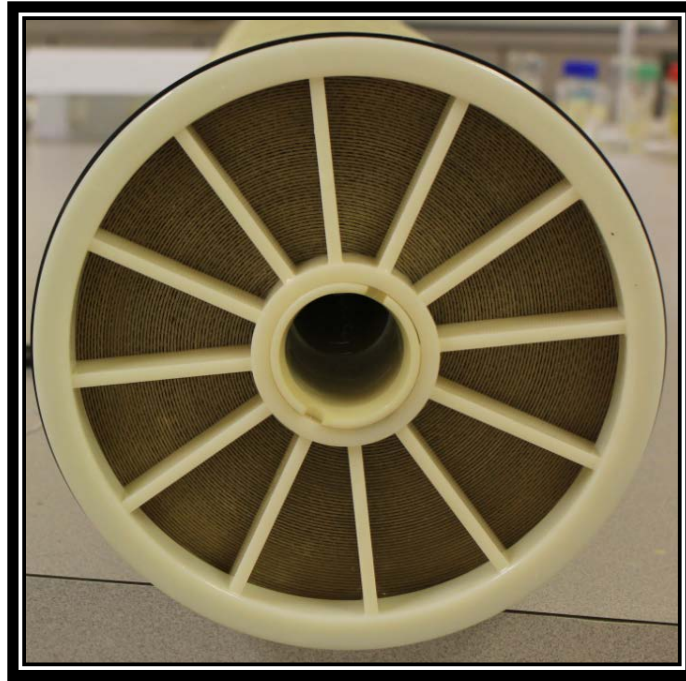
The membrane arrived at Alkema by courier, intact and in good condition, wrapped in bubble wrap, and black plastic bags. The fiberglass shell had a few black deposits near the center of the membrane. The feed ATDs appeared clean to the eye, though the feed end feed channels were visibly discolored. The Concentrate ATD had a gray deposit on one of the ATD spokes.



**Figure 5: The membrane arrived intact and in good condition.**



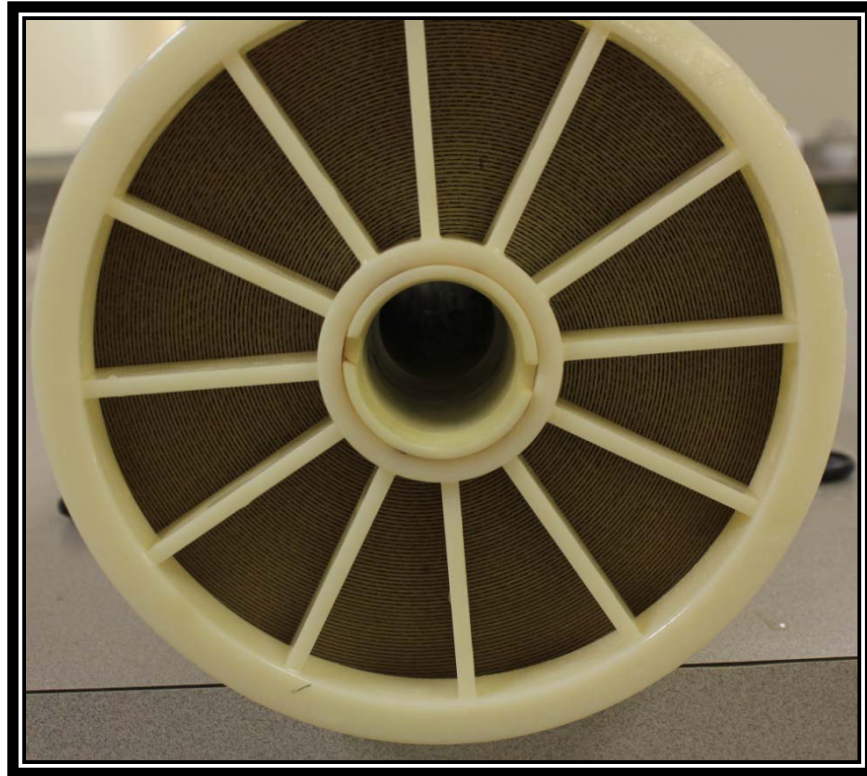
**Figure 6: The fiberglass shell had a few isolated deposits near the center of the element.**



**Figure 7: The feed ATD.**



**Figure 8: The feed end feed channels were visibly discolored.**



**Figure 9: The concentrate ATD.**



**Figure 10: A black deposit was found on a spoke of the concentrate ATD.**

## Wet Test Conditions

<b>Test Protocol</b> (Specific to membrane manufacturer's spec sheet)	
<b>Membrane Make and Model:</b>	TMG20-430
<b>Feed Solution Concentration (ppm): (NaCl)</b>	500ppm NaCl
<b>Weight of Water (LBS):</b>	1534lbs
<b>Salt Added (NaCl) (g):</b>	348.7g NaCl
<b>Feed solution pH:</b>	7
<b>Feed solution Temperature (°C):</b>	25
<b>Feed Pressure (PSI):</b>	110
<b>Feed Flow (gpm): (Target)</b>	50.93

**Initial Membrane Wet Test Evaluation S#101031145**

<b>Feed Temperature (°C):</b>	31.5
<b>Feed Solution pH:</b>	6.98
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on Cl analysis			% Recovery Calculation based on Flow rates		
				<b>GPM</b>	<b>GPD</b>
<b>Feed Cl =</b>	320	PPM	<b>Feed Flow =</b>	51.0	73498
<b>Concentrate Cl =</b>	377	PPM	<b>Concentrate Flow =</b>	42.8	61632
<b>Permeate Cl =</b>	1.42	PPM	<b>Permeate Flow =</b>	8.2	11866
<b>Feed Conductivity =</b>	1016	µS/cm	<b>Differential Pressure (PSI) =</b>	5.5	
<b>Concentrate Conductivity =</b>	1195	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	5.47	µS/cm	<b>Average Pressure (PSI) =</b>	107.25	
<b>Initial SDI of Test Solution</b>	0.94		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	3.58				

<b>Concentration Factor based on Cl =</b>	1.18
<b>% Recovery based on Cl =</b>	15.12%
<b>% Salt Rejection based on Cl =</b>	99.59%

<b>% Recovery based on Flow rates =</b>	16.14%
<b>Flux (GFD) =</b>	27.6
<b>Specific Flux (GFD/PSI) =</b>	0.26
<b>Temperature Correction Factor =</b>	1.2082
<b>Temperature Corrected Flow (GPM) =</b>	6.82
<b>Temperature Corrected Salt Rejection =</b>	99.66%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test Pre-Cleaning Result At 31.5°C</b>	<b>Alkema Wet Test Pre-Cleaning Result Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	11720.0	11865.60	9821.11
<b>Recovery (%)</b>	15.00%	15.98%	16.14%	13.36%
<b>Salt Rejection (%)</b>	99.50%	99.61%	99.59%	99.66%
<b>Flux (GFD)</b>	25.58	27.26	27.59	22.84
<b>Specific Flux</b>	0.24	0.25	0.26	0.21
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.50

**Initial Membrane Wet Test Evaluation S#101011233**

<b>Feed Temperature (°C):</b>	31
<b>Feed Solution pH:</b>	7.02
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on CI analysis			% Recovery Calculation based on Flow rates		
				GPM	GPD
<b>Feed CI =</b>	319	PPM	<b>Feed Flow =</b>	51.5	74088
<b>Concentrate CI =</b>	368	PPM	<b>Concentrate Flow =</b>	44.1	63504
<b>Permeate CI =</b>	1.3	PPM	<b>Permeate Flow =</b>	7.35	10584
<b>Feed Conductivity =</b>	1011	µS/cm	<b>Differential Pressure (PSI) =</b>	5.5	
<b>Concentrate Conductivity =</b>	1166	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	5	µS/cm	<b>Average Pressure (PSI) =</b>	107.25	
<b>Initial SDI of Test Solution</b>	0.89		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	4.47				

<b>Concentration Factor based on CI =</b>	1.15
<b>% Recovery based on CI =</b>	13.32%
<b>% Salt Rejection based on CI =</b>	99.62%

<b>% Recovery based on Flow rates =</b>	14.29%
<b>Flux (GFD) =</b>	24.6
<b>Specific Flux (GFD/PSI) =</b>	0.23
<b>Temperature Correction Factor =</b>	1.1911
<b>Temperature Corrected Flow (GPM) =</b>	6.17
<b>Temperature Corrected Salt Rejection =</b>	99.68%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test Pre-Cleaning Result At 31°C</b>	<b>Alkema Wet Test Pre-Cleaning Result Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	12594.0	10584.00	8886.15
<b>Recovery (%)</b>	15.00%	17.17%	14.29%	12.12%
<b>Salt Rejection (%)</b>	99.50%	99.77%	99.62%	99.68%
<b>Flux (GFD)</b>	25.58	29.29	24.61	20.67
<b>Specific Flux</b>	0.24	0.27	0.23	0.19
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.50

### High pH cleaning with AWC-C237 at pH 11.5

Time (total hrs)	0	0.5	1.0	Soak for 30 minutes	1.5	2.0	2.5	Soak for 90 minutes to cool cleaning solution	4	4.5	Soak for 1 hour cool cleaning solution	5.5	6.0	Membrane flushed with permeate water until reject was pH neutral.
Cleaning Solution pH	11.67	11.62	11.63		11:57	11:56	11:56		11:41	11:39		11:40	11:40	
Cleaning Solution Temperature, (°F)	86	91	98		98	106	113		110	113		111	113	
Cleaning Solution Pressure, PSI (10 PSI/element)	12	12	12		16	16	16		16	16		16	16	
Return Pressure, PSI	1	1	1		2	2	2		2.5	2.5		2.5	2.5	
Delta Pressure (<10PSI/element)	11	11	11		14	14	14		13.5	13.5		13.5	13.5	
Cleaning Flow rate (optimal 30~45 GPM/PV)	35.0	35.2	35.4		45	45.1	45.1		45.2	45.1		45.2	45.2	
Cleaning Solution Appearance	clear	clear	clear		Light yellow	Light yellow	Light yellow		Light yellow	Light yellow		Light yellow	Light yellow	
<b>Comments:</b>  Cleaning solution: 2% AWC C-237 Lot:14-451  Membranes were cleaned in a two element pressure vessel with S#10131145 set in the lead position  SDI of cleaning solution: 1.06 SDI of cleaning solution after cleaning: unmeasurable	Start circulation of cleaning solution	Continue to circulate cleaning solution	Stop circulation to soak.	Restart circulation of cleaning solution, increase flow to 45gpm	Continue to circulate cleaning solution	Stop circulation to soak.	Restart circulation of cleaning solution.	Stop circulation to cool down cleaning solution.	Restart circulation of cleaning solution.	Stop circulation to flush membrane				



**Post High pH Cleaning with C237 Evaluation of S#101031145**

<b>Feed Temperature (°C):</b>	30.5
<b>Feed Solution pH:</b>	6.98
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on CI analysis			% Recovery Calculation based on Flow rates		
				GPM	GPD
<b>Feed CI =</b>	321	PPM	<b>Feed Flow =</b>	50.9	73296
<b>Concentrate CI =</b>	376	PPM	<b>Concentrate Flow =</b>	42.8	61632
<b>Permeate CI =</b>	1.35	PPM	<b>Permeate Flow =</b>	8.1	11664
<b>Feed Conductivity =</b>	1019	µS/cm	<b>Differential Pressure (PSI) =</b>	5	
<b>Concentrate Conductivity =</b>	1192	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	4.87	µS/cm	<b>Average Pressure (PSI) =</b>	107.5	
<b>Initial SDI of Test Solution</b>	0.77		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	2.17				

<b>Concentration Factor based on CI =</b>	1.17
<b>% Recovery based on CI =</b>	14.63%
<b>% Salt Rejection based on CI =</b>	99.61%

<b>% Recovery based on Flow rates =</b>	15.91%
<b>Flux (GFD) =</b>	27.13
<b>Specific Flux (GFD/PSI) =</b>	0.25
<b>Temperature Correction Factor =</b>	1.1741
<b>Temperature Corrected Flow (GPM) =</b>	6.90
<b>Temperature Corrected Salt Rejection =</b>	99.67%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test At 30.5°C</b>	<b>Alkema Wet Test Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	11720.0	11664.00	9934.01
<b>Recovery (%)</b>	15.00%	15.98%	15.91%	13.55%
<b>Salt Rejection (%)</b>	99.50%	99.61%	99.61%	99.67%
<b>Flux (GFD)</b>	25.58	27.26	27.13	23.10
<b>Specific Flux</b>	0.24	0.25	0.25	0.21
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.00	5.00

**Post High pH Cleaning with C237 Evaluation of S#101011233**

<b>Feed Temperature (°C):</b>	30.5
<b>Feed Solution pH:</b>	6.96
<b>VFD Setting (Hz):</b>	38.0

<b>% Recovery Calculation based on CI analysis</b>			<b>% Recovery Calculation based on Flow rates</b>		
				<b>GPM</b>	<b>GPD</b>
<b>Feed CI =</b>	316	PPM	<b>Feed Flow =</b>	50.9	73367
<b>Concentrate CI =</b>	367	PPM	<b>Concentrate Flow =</b>	43.4	62496
<b>Permeate CI =</b>	1.39	PPM	<b>Permeate Flow =</b>	7.5	10871
<b>Feed Conductivity =</b>	1003	µS/cm	<b>Differential Pressure (PSI) =</b>	5.5	
<b>Concentrate Conductivity =</b>	1164	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	5.01	µS/cm	<b>Average Pressure (PSI) =</b>	107.25	
<b>Initial SDI of Test Solution</b>	0.87		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	3.70				

<b>Concentration Factor based on CI =</b>	1.16
<b>% Recovery based on CI =</b>	13.90%
<b>% Salt Rejection based on CI =</b>	99.59%

<b>% Recovery based on Flow rates =</b>	14.82%
<b>Flux (GFD) =</b>	25.28
<b>Specific Flux (GFD/PSI) =</b>	0.24
<b>Temperature Correction Factor =</b>	1.1741
<b>Temperature Corrected Flow (GPM) =</b>	6.43
<b>Temperature Corrected Salt Rejection =</b>	99.65%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test At 30.5°C</b>	<b>Alkema Wet Test Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	12594.0	10871.18	9258.78
<b>Recovery (%)</b>	15.00%	17.17%	14.82%	12.62%
<b>Salt Rejection (%)</b>	99.50%	99.77%	99.59%	99.65%
<b>Flux (GFD)</b>	25.58	29.29	25.28	21.53
<b>Specific Flux</b>	0.24	0.27	0.24	0.20
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.50

**High pH cleaning with AWC-C226 at pH 12.5**

Time (total hrs)	0	0.5	1.0	Soak for 30 minutes	1.5	2.0	2.5	Soak for 90 minutes to cool cleaning solution	4	4.5	Soak for 1 hour to cool cleaning solution	5.5	6.0	Membrane flushed with permeate water until reject was pH neutral.
Cleaning Solution pH	12.57	12.52	12.50		12.52	12.52	12.48		12.48	12.46		12.45	12.46	
Cleaning Solution Temperature, (°F)	91	97	103		102	108	111		109	114		111	113	
Cleaning Solution Pressure, PSI (10 PSI/element)	16	15	15		15	14	14		14	15		15	15	
Return Pressure, PSI	3	3	3		3	3	3		2.5	2.5		2.5	2.5	
Delta Pressure (<10PSI/element)	13	12	12		12	11	11		11.5	11.5		12.5	2.5	
Cleaning Flow rate (optimal 30~45 GPM/PV)	45.1	45.2	45.3		45.2	45.1	45.2		45.2	45.3		45.5	45.3	
Cleaning Solution Appearance	clear	clear	clear		clear	clear	clear		Clear	clear		clear	clear	
Comments:	Start circulation of cleaning solution	Continue to circulate cleaning solution	Stop circulation to soak.		Restart circulation of cleaning solution.	Continue to circulate cleaning solution	Stop circulation to soak.		Restart circulation of cleaning solution.	Stop circulation to cool down cleaning solution.		Restart circulation of cleaning solution.	Stop circulation to flush membrane	
Cleaning solution: 2% C226 Lot:14-493  Membranes were cleaned in a two element pressure vessel with S#10131145 set in the lead position  SDI of cleaning solution: 1.03 SDI of cleaning solution after cleaning: unmeasurable														

**Post High pH Cleaning with C226 Evaluation of S#101031145**

<b>Feed Temperature (°C):</b>	30.5
<b>Feed Solution pH:</b>	7.02
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on Cl analysis			% Recovery Calculation based on Flow rates		
				<b>GPM</b>	<b>GPD</b>
<b>Feed Cl =</b>	307	PPM	<b>Feed Flow =</b>	51.0	73411
<b>Concentrate Cl =</b>	368	PPM	<b>Concentrate Flow =</b>	41.9	60336
<b>Permeate Cl =</b>	2.00	PPM	<b>Permeate Flow =</b>	9.1	13075
<b>Feed Conductivity =</b>	972	µS/cm	<b>Differential Pressure (PSI) =</b>	5	
<b>Concentrate Conductivity =</b>	1167	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	7.23	µS/cm	<b>Average Pressure (PSI) =</b>	107.5	
<b>Initial SDI of Test Solution</b>	1.1		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	1.78				

<b>Concentration Factor based on Cl =</b>	1.20
<b>% Recovery based on Cl =</b>	16.58%
<b>% Salt Rejection based on Cl =</b>	99.41%

<b>% Recovery based on Flow rates =</b>	17.81%
<b>Flux (GFD) =</b>	30.41
<b>Specific Flux (GFD/PSI) =</b>	0.28
<b>Temperature Correction Factor =</b>	1.1741
<b>Temperature Corrected Flow (GPM) =</b>	7.73
<b>Temperature Corrected Salt Rejection =</b>	99.50%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test At 30.5°C</b>	<b>Alkema Wet Test Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	11720.0	13075.2	11135.9
<b>Recovery (%)</b>	15.00%	15.98%	17.81%	15.17%
<b>Salt Rejection (%)</b>	99.50%	99.61%	99.41%	99.50%
<b>Flux (GFD)</b>	25.58	27.26	30.41	25.90
<b>Specific Flux</b>	0.24	0.25	0.28	0.24
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.0	5.0

**Post High pH Cleaning with C226 Evaluation of S#101011233**

<b>Feed Temperature (°C):</b>	30.5
<b>Feed Solution pH:</b>	7.04
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on CI analysis			% Recovery Calculation based on Flow rates		
				GPM	GPD
<b>Feed CI =</b>	307	PPM	<b>Feed Flow =</b>	50.9	73296
<b>Concentrate CI =</b>	366	PPM	<b>Concentrate Flow =</b>	42.1	60624
<b>Permeate CI =</b>	2.34	PPM	<b>Permeate Flow =</b>	8.8	12672
<b>Feed Conductivity =</b>	976	µS/cm	<b>Differential Pressure (PSI) =</b>	5	
<b>Concentrate Conductivity =</b>	1159	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	8.46	µS/cm	<b>Average Pressure (PSI) =</b>	107.5	
<b>Initial SDI of Test Solution</b>	0.96		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	2.66				

<b>Concentration Factor based on CI =</b>	1.19
<b>% Recovery based on CI =</b>	16.12%
<b>% Salt Rejection based on CI =</b>	99.31%

<b>% Recovery based on Flow rates =</b>	17.29%
<b>Flux (GFD) =</b>	29.47
<b>Specific Flux (GFD/PSI) =</b>	0.27
<b>Temperature Correction Factor =</b>	1.1741
<b>Temperature Corrected Flow (GPM) =</b>	7.49
<b>Temperature Corrected Salt Rejection =</b>	99.41%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test At 30.5°C</b>	<b>Alkema Wet Test Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	12594.0	12672.00	10792.50
<b>Recovery (%)</b>	15.00%	17.17%	17.29%	14.72%
<b>Salt Rejection (%)</b>	99.50%	99.77%	99.31%	99.41%
<b>Flux (GFD)</b>	25.58	29.29	29.47	25.10
<b>Specific Flux</b>	0.24	0.27	0.27	0.23
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.00	5.00

**Low pH cleaning with AWC-C234 at pH 1.6**

<b>Time (total hrs)</b>	0	0.5	1.0	Soak for 30 minutes	1.5	2.0	2.5	Soak for 30 minutes	3.0	3.25	Membrane flushed with permeate water until reject was pH neutral.
<b>Cleaning Solution pH</b>	1.62	1.64	1.64		1.63	1.63	1.64		1.64	1.64	
<b>Cleaning Solution Temperature, (°F)</b>	86	90	95		95	99	103		103	104	
<b>Cleaning Solution Pressure, PSI (10 PSI/element)</b>	14	14	13		13	13	13		13	13	
<b>Return Pressure, PSI</b>	2.5	2.5	2.5		2.5	2.5	2.5		2.0	2.0	
<b>Delta Pressure (&lt;10PSI/element)</b>	11.5	11.5	10.5		10.5	10.5	10.5		11	11	
<b>Cleaning Flow rate (optimal 30~45 GPM/PV)</b>	45.2	45.2	45.3		45.3	45.3	45.2		45.4	45.3	
<b>Cleaning Solution Appearance</b>	clear	clear	clear		clear	clear	clear		clear	clear	
<b>Comments:</b>  Cleaning solution: 2% C234Lot:15-289  Membranes were cleaned in a two element pressure vessel with S#10131145 set in the lead position  SDI of cleaning solution: 0.72 SDI of cleaning solution after cleaning: 1.07	Start circulation of cleaning solution	Continue to circulate cleaning solution	Stop circulation to soak.		Restart circulation of cleaning solution	Continue to circulate cleaning solution	Stop circulation to soak.		Restart circulation of cleaning solution	Stop circulation to flush membrane.	

**Post Low pH Cleaning with C234 Evaluation of S#101034115**

<b>Feed Temperature (°C):</b>	30
<b>Feed Solution pH:</b>	6.96
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on Cl analysis			% Recovery Calculation based on Flow rates		
				<b>GPM</b>	<b>GPD</b>
<b>Feed Cl =</b>	309.6	PPM	<b>Feed Flow =</b>	50.3	72432
<b>Concentrate Cl =</b>	372.1	PPM	<b>Concentrate Flow =</b>	41.8	60192
<b>Permeate Cl =</b>	1.64	PPM	<b>Permeate Flow =</b>	8.5	12240
<b>Feed Conductivity =</b>	982	µS/cm	<b>Differential Pressure (PSI) =</b>	5	
<b>Concentrate Conductivity =</b>	1180	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	5.92	µS/cm	<b>Average Pressure (PSI) =</b>	107.5	
<b>Initial SDI of Test Solution</b>	0.98		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	1.69				

<b>Concentration Factor based on Cl =</b>	1.20
<b>% Recovery based on Cl =</b>	16.80%
<b>% Salt Rejection based on Cl =</b>	99.52%

<b>% Recovery based on Flow rates =</b>	16.90%
<b>Flux (GFD) =</b>	28.47
<b>Specific Flux (GFD/PSI) =</b>	0.26
<b>Temperature Correction Factor =</b>	1.1574
<b>Temperature Corrected Flow (GPM) =</b>	7.34
<b>Temperature Corrected Salt Rejection =</b>	99.58%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test At 30°C</b>	<b>Alkema Wet Test Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	11720.0	12240.00	10575.29
<b>Recovery (%)</b>	15.00%	15.98%	16.90%	14.60%
<b>Salt Rejection (%)</b>	99.50%	99.61%	99.52%	99.58%
<b>Flux (GFD)</b>	25.58	27.26	28.47	24.59
<b>Specific Flux</b>	0.24	0.25	0.26	0.23
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.00	5.00

**Post Low pH Cleaning with C234 Evaluation of S#101011233**

<b>Feed Temperature (°C):</b>	30
<b>Feed Solution pH:</b>	7.04
<b>VFD Setting (Hz):</b>	38.0

% Recovery Calculation based on Cl analysis			% Recovery Calculation based on Flow rates		
				GPM	GPD
<b>Feed Cl =</b>	317	PPM	<b>Feed Flow =</b>	50.7	73008
<b>Concentrate Cl =</b>	379	PPM	<b>Concentrate Flow =</b>	42	60480
<b>Permeate Cl =</b>	1.9	PPM	<b>Permeate Flow =</b>	8.7	12528
<b>Feed Conductivity =</b>	1008	µS/cm	<b>Differential Pressure (PSI) =</b>	5	
<b>Concentrate Conductivity =</b>	1202	µS/cm	<b>Applied Pressure (PSI) =</b>	110	
<b>Permeate Conductivity =</b>	6.87	µS/cm	<b>Average Pressure (PSI) =</b>	107.5	
<b>Initial SDI of Test Solution</b>	0.99		<b>Membrane Surface Area (ft<sup>2</sup>)</b>	430	
<b>Final SDI of Test Solution</b>	2.09				

<b>Concentration Factor based on Cl =</b>	1.20
<b>% Recovery based on Cl =</b>	16.36%
<b>% Salt Rejection based on Cl =</b>	99.45%

<b>% Recovery based on Flow rates =</b>	17.16%
<b>Flux (GFD) =</b>	29.13
<b>Specific Flux (GFD/PSI) =</b>	0.27
<b>Temperature Correction Factor =</b>	1.1574
<b>Temperature Corrected Flow (GPM) =</b>	7.52
<b>Temperature Corrected Salt Rejection =</b>	99.53%

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Wet Test At 30°C</b>	<b>Alkema Wet Test Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000.0	12594.0	12528.00	10824.12
<b>Recovery (%)</b>	15.00%	17.17%	17.16%	14.76%
<b>Salt Rejection (%)</b>	99.50%	99.77%	99.45%	99.53%
<b>Flux (GFD)</b>	25.58	29.29	29.13	25.17
<b>Specific Flux</b>	0.24	0.27	0.27	0.23
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.00	5.00



**Summary of Results for S#101031145**

**Wet Test Results at Measured Temperature**

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Pre-Cleaning Result at 31.5°C</b>	<b>Alkema Post High pH Cleaning With C237 at pH 11.5 and at 30.5°C</b>	<b>Alkema Post High pH Cleaning With C226 at pH 12.5 and at 30.5°C</b>	<b>Alkema Post Low pH Cleaning With C234 at pH 1.6 and at 30°C</b>
<b>Permeate Flow (GPD)</b>	11000	11720	11866	11664	12672	12240
<b>Recovery (%)</b>	15.00%	15.98%	16.14%	15.91%	17.29%	16.90%
<b>Salt Rejection (%)</b>	99.50%	99.61%	99.59%	99.61%	99.31%	99.52%
<b>Flux (GFD)</b>	25.58	27.26	27.59	27.13	29.47	28.47
<b>Specific Flux</b>	0.24	0.25	0.26	0.25	0.27	0.26
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.00	5.00	5.00

**Wet Test Results Normalized for 25°C**

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Pre-Cleaning Result Normalized for 25°C</b>	<b>Alkema Post High pH Cleaning With C237 at pH 11.5 Normalized for 25°C</b>	<b>Alkema Post High pH Cleaning With C226 at pH 12.5 Normalized for 25°C</b>	<b>Alkema Post Low pH Cleaning With C234 at pH 1.6 Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000	11720	9821	9934	10793	10575
<b>Recovery (%)</b>	15.00%	15.98%	13.36%	13.55%	14.72%	14.60%
<b>Salt Rejection (%)</b>	99.50%	99.61%	99.66%	99.67%	99.41%	99.58%
<b>Flux (GFD)</b>	25.58	27.26	22.84	23.10	25.10	24.59
<b>Specific Flux</b>	0.24	0.25	0.21	0.21	0.23	0.23
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.00	5.00	5.00

**Summary of Results for S#101011233**

**Wet Test Results at Measured Temperature**

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Pre-Cleaning Result at 31°C</b>	<b>Alkema Post High pH Cleaning With C237 at pH 11.5 at 30.5°C</b>	<b>Alkema Post High pH Cleaning With C226 at pH 12.5 and at 30.5°C</b>	<b>Alkema Post Low pH Cleaning With C234 at pH 1.6 and at 30°C</b>
<b>Permeate Flow (GPD)</b>	11000	12594	10584	10871	13075	12528
<b>Recovery (%)</b>	15.00%	17.17%	14.29%	14.82%	17.81%	17.16%
<b>Salt Rejection (%)</b>	99.50%	99.77%	99.62%	99.59%	99.41%	99.45%
<b>Flux (GFD)</b>	25.58	29.29	24.61	25.28	30.41	29.13
<b>Specific Flux</b>	0.24	0.27	0.23	0.24	0.28	0.27
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.50	5.0	5.00

**Wet Test Results Normalized for 25°C**

	<b>Manufacturer Specification</b>	<b>Manufacturer's Wet Test Results</b>	<b>Alkema Pre-Cleaning Result Normalized for 25°C</b>	<b>Alkema Post High pH Cleaning With C237 at pH 11.5 Normalized for 25°C</b>	<b>Alkema Post High pH Cleaning With C226 at pH 12.5 Normalized for 25°C</b>	<b>Alkema Post Low pH Cleaning With C234 at pH 1.6 Normalized for 25°C</b>
<b>Permeate Flow (GPD)</b>	11000	12594	8886	9259	11136	10824
<b>Recovery (%)</b>	15.00%	17.17%	12.12%	12.62%	15.17%	14.76%
<b>Salt Rejection (%)</b>	99.50%	99.77%	99.68%	99.65%	99.50%	99.53%
<b>Flux (GFD)</b>	25.58	29.29	20.67	21.53	25.90	25.17
<b>Specific Flux</b>	0.24	0.27	0.19	0.20	0.24	0.23
<b>Differential Pressure (PSI)</b>	≥3	N/A	5.50	5.50	5.0	5.00

## **Discussion and Conclusion**

Initial performance testing of the 1<sup>st</sup> stage lead element from train 1 (S# 101031145) had flux that was 16% below the manufacturer's wet test results. The differential pressure was 2.5 PSI greater than the manufacturer's acceptable limit of 3 PSI for an unused element. The salt rejection was 0.05% greater than the manufacturer's wet test results.

After high pH cleaning with C237 at pH 11.5, the membrane performance increased by only 1%, with salt rejection showing no appreciable change. Differential pressure decreased by 0.5PSI, indicating that high pH soluble materials blocking the feed channels were removed. Additional high pH cleaning with C226 was prescribed due to the lack of improvement with C237.

After high pH cleaning with C226 at pH 12.5, the membrane performance increased to 10% above that observed in initial wet testing, with salt rejection decreasing to 0.25% below initial wet test values. Loss of salt rejection from high pH cleaning is expected and is generally reversible with low pH cleaning.

After low pH cleaning with C234 at pH 1.5, membrane flux decreased to 8% above that observed in initial wet testing. Salt rejection improved to 99.58%, only 0.03% below the manufacturer's wet test values.

Overall the cleaning procedure improved membrane performance by 8%, but decreased salt rejection by 0.08%. The membranes' observed performance was ~4% below manufacturer specifications, but was still 10% lower than manufacturer's wet test results.

Initial performance testing of the 2<sup>nd</sup> stage tail element from train 1 (S# 101011233) showed flux to be 29% below the manufacturer's wet test results. The differential pressure was 2.5PSI greater than acceptable values, and the salt rejection was 0.09% lower than the manufacturer's wet test results.

After high pH cleaning with C237 at pH 11.5, the membrane performance increased by only 4%, with salt rejection showing no appreciable change. Additional high pH cleaning with C226 was prescribed due to the lack of improvement with C237.

After high pH cleaning with C226 at pH 12.5, the membrane performance increased to 25% above that observed in initial wet testing, with salt rejection decreasing to 0.18% below initial wet test values. The differential pressure after cleaning decreased by 0.5PSI; this indicated that high pH soluble obstructions were removed.

After low pH cleaning with C234 at pH 1.5, membrane flux decreased to 22% above that observed in initial wet testing. Salt rejection improved marginally.

Overall the cleaning procedure increased membrane flux by 22% and brought salt rejection to within specification. The membrane's performance was below the manufacturer's wet test values, but within 2% of the manufacturer's specifications.

### **Release of Liability**

The Membrane Cleaning Study (The Service) was performed in accordance with the standards of care, skill, and diligence normally provided by a professional in the performance of similar services. American Water Chemicals, Inc. makes no warranty of any kind with the respect to The Service and will not be liable for any damages resulting from the use or misuse of The Service. In no event shall American Water Chemicals, Inc. have any liability for The Service, including, but not limited to, special, indirect, incidental, consequential, or other direct damages whether such liability arises in contract, negligence, strict liability, or otherwise, and the Client hereby agrees to release and indemnify American Water Chemicals, Inc. against same.



January 15, 2016

Joe Stephens  
Chief Operator  
Coral Springs Improvement District  
10300 N.W. 11th Manor  
Coral Springs, FL 33071

RE: Cleaning Chemicals

Dear Joe,

We would like to extend to you the same pricing that we provided to Palm Beach County in **RFQ #112315-126**. We recommend for your particular application that AWC C-237 is substituted with AWC C-226. The AWC C-237 and AWC C-226 are functionally equivalent with the AWC C-226 being in a powder form instead of a liquid.

Sincerely,

Jessaca Townsend  
Inside Sales and Customer Service  
American Water Chemicals, Inc.  
customerservice@membranechemicals.com  
Tel: (813) 246-5448 ext. 229  
Fax: (813) 623-6678

**Board of County Commissioners**

Mary Lou Berger, Mayor  
 Hal R. Valeche, Vice Mayor  
 Paulette Burdick  
 Shelley Vana  
 Steven L. Abrams  
 Melissa McKinlay  
 Priscilla A. Taylor



County Administrator

Verdenia C. Baker

Purchasing Department  
[www.pbcgov.org/purchasing](http://www.pbcgov.org/purchasing)

**BOARD OF COUNTY COMMISSIONERS  
 NOTICE OF SOLICITATION  
 RFQ #112315-126**

**MEMBRANE CLEANING CHEMICALS, PURCHASE AND DELIVERY OF**

**RFQ SUBMISSION DATE: DECEMBER 10, 2015 AT 4:00 P.M.**

**\*\*\*\* FAXED OR E-MAILED RESPONSES ACCEPTABLE \*\*\*\***

It is the responsibility of the vendor to ensure that all pages are included. Therefore, all vendors are advised to closely examine this package. Any questions regarding the completeness of this package should be immediately directed to the Palm Beach County Purchasing Department.

Quotations are requested for furnishing the goods/services as described herein and in accordance with applicable terms, conditions and specifications as set forth herein without any modification, change or alterations to any terms, conditions or provisions of this solicitation, unless specifically approved in writing by the County.

By submitting an offer which is accepted by the County, a binding contract is formed in accordance with the terms, conditions and specifications as set forth in this Request for Quotation (RFQ)

**C A U T I O N**

**As they are issued, all amendments to solicitations will be posted under the applicable solicitation on our website at <http://www.pbcgov.org/purchasing>. It is the vendor's sole responsibility to routinely check this website for any amendments that may have been issued prior to the deadline for receipt of quotes.**

**Palm Beach County shall not be responsible for the completeness of any solicitation that was not downloaded from the above website or obtained directly from the Purchasing Department.**

**In accordance with the provisions of ADA,  
 this document may be requested in an alternate format.**

**BOARD OF COUNTY COMMISSIONERS, PALM BEACH COUNTY PURCHASING DEPARTMENT  
 50 S. MILITARY TRAIL, SUITE 110, WEST PALM BEACH, FL 33415-3199**

**BOARD OF COUNTY COMMISSIONERS  
Palm Beach County  
REQUEST FOR QUOTATION**

<b>RFQ #112315-126</b>	<b>TITLE: MEMBRANE CLEANING CHEMICALS, PURCHASE AND DELIVERY OF</b>	
<b>BUYER: ZULMA GASCA</b>		<b>PHONE (561) 616-6848</b>
<b>FAX (561) 242-6748</b>	<b>E-MAIL: <a href="mailto:zgasca@pbcgov.org">zgasca@pbcgov.org</a></b>	

\*\*\*\* FAXED OR E-MAILED RESPONSES ACCEPTABLE \*\*\*\*

**To ensure that your offer is considered, it must be received in Palm Beach County Purchasing no later than 4:00 P.M., PALM BEACH COUNTY LOCAL TIME, by the submission date. Offers received after this time will not be considered.**

This Request for Quotation, General Conditions, Instructions to Vendors, Special Conditions, Specifications, Attachments, Amendments (if issued), and/or any other referenced document form a part of this RFQ solicitation and response thereto, and by reference are made a part thereof. The selected awardee shall be bound by all terms, conditions and requirements in these documents.

**GENERAL CONDITIONS, INSTRUCTIONS AND INFORMATION FOR VENDORS**

**GENERAL CONDITIONS**

The following Terms and Conditions are applicable to this purchase order/contract entered into by and between Palm Beach County (referred to as County) and Vendor.

**1. CONDITIONED OFFERS**

Vendors are cautioned that any condition, qualification, provision, or comment in their quote, or in other correspondence transmitted with their quote, which in any way modifies, takes exception to, or is inconsistent with the specifications, requirements, or any of the terms, conditions, or provisions of this solicitation, is sufficient cause for the rejection of their quote and shall be considered as non-responsive.

**2. MODIFICATIONS**

No modifications of this order/contract, including but not limited to these terms and conditions, shall be binding upon County unless approved by an authorized representative of County's Purchasing Office.

**3. ASSIGNMENTS**

Assignments are prohibited unless prior written consent is given by the County and the Vendor.

**4. EXCUSABLE DELAYS**

The County may grant additional time for any delay if the delay will not adversely impact the best interest of the County and is due to causes beyond the control of the Vendor. Such grant must be in writing and made part of the order/contract.

**5. DEFAULT**

The County may, by written notice of default to the successful vendor, terminate the order/contract in whole or in part if the successful vendor fails to satisfactorily perform any provisions of this solicitation or resultant order/contract, or fails to make progress so as to endanger performance under the terms and conditions of this solicitation or resultant order/contract, or provides repeated non-performance, or does not remedy such failure within a period of ten (10) days (or such period as the Director of Purchasing may authorize in writing) after receipt of notice from the Director of Purchasing specifying such failure. In the event the County terminates this order/contract in whole or in part because of default of the successful vendor, the County may procure goods and/or services similar to those terminated, and the successful vendor shall be liable for any excess costs incurred due to this action.

If it is determined that the successful vendor was not in default or that the default was excusable (e.g., failure due to causes beyond the control of, or without the fault or negligence of, the successful vendor), the rights and obligations of the parties shall be those provided in "Termination For Convenience".

**6. TERMINATION FOR CONVENIENCE**

The County may, whenever the interests of the County so require, terminate the order/contract, in whole or in part, for the convenience of the County upon five (5) days written notice to Vendor. Unless directed otherwise in the notice of termination, the Vendor shall incur no further obligations in connection with the order/contract.

**7. REMEDIES**

No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder now or hereafter existing at law, or in equity, by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.

**8. NO THIRD PARTY BENEFICIARY**

No provision of this Contract is intended to, or shall be construed to, create any third party beneficiary or to provide any rights to any person or entity not a party to this Contract, including but not limited to any citizen or employees of the County and/or successful vendor.

**9. FOB**

The F.O.B. point shall be destination. If the County agrees, freight charges may be prepaid by the Vendor and listed on the invoice; however, Vendor retains title and assumes all responsibility, liability and risk in transit, and shall be responsible for the filing of claims for loss or damages.

**10. PAYMENT TERMS**

The Florida Prompt Payment Act is applicable to this solicitation. Interest penalties will only be paid in accordance with the Florida Prompt Payment Act, Florida Statute 218.70.

**Note: Palm Beach County Vendors can now be paid by Credit Card via the County's voluntary Payment Manager Program.** For vendors

who don't have a merchant account, one is needed to utilize the Program. For vendors with a merchant account, you will need to enroll with the Palm Beach County Clerk & Comptroller's office. For information, contact the Palm Beach County Clerk & Comptroller at [pbcpaymentmgr@mypalmbeachclerk.com](mailto:pbcpaymentmgr@mypalmbeachclerk.com) or 561-355-3295.

#### 11. INVOICING

Vendor must render original invoice(s) to the Palm Beach County Finance Department, P.O. Box 4036, West Palm Beach, Florida 33402-4036.

#### 12. TAXES

The County is exempt from Federal and State taxes.

#### 13. PURCHASE ORDER

The County will not accept any goods delivered or services performed unless a duly authorized purchase order has been issued for said goods and/or services. The purchase order number must appear on all invoices, packing slips and all correspondence concerning the order.

#### 14. ORDER/CONTRACT

Vendor agrees that by submitting an offer (i.e. Request for Quotation) which is accepted by the County (i.e. Purchase Order, Term Contract Notice) a binding contract is formed in accordance with the County's terms, conditions and specifications as set forth in the solicitation and this purchase order. Vendor certifies that the offer has been made by an officer or employee having the authority to bind the Vendor. Accordingly, payment will **only** be made to the company and the address as provided in the Vendor's offer unless prior written authorization is received from the County.

#### 15. PRICING

- Unless specifically requested in the specifications, any response containing modifying or escalation clauses shall be rejected.
- The price offered must be in accordance with the unit of measure provided on the response page(s). One (1) space or line requires only one (1) single, fixed unit price. Anything other than a single, fixed unit price shall result in the rejection of your response.
- Vendor warrants by virtue of submitting an offer that prices shall remain firm for a period of ninety (90) days from the date of opening to allow for evaluation and award.
- Prices shall remain firm for the initial and any subsequent term unless modified by a special condition.
- All unit prices offered should be within two (2) decimal points. If vendor's pricing offered exceeds two (2) decimal points, Purchasing reserves the right to round up or down accordingly.
- In the event of mathematical error(s), the unit price shall prevail and the vendor's total offer shall be corrected accordingly. **QUOTES HAVING ERASURES OR CORRECTIONS MUST BE INITIALED BY THE VENDOR PRIOR TO SUBMISSION TIME. IF THE CORRECTION IS NOT PROPERLY INITIALED, OR IF THE INTENT OR LEGIBILITY OF THE CORRECTION IS NOT CLEAR, THE RFQ SHALL BE REJECTED.**

#### 16. DELIVERIES

Deliveries are to be made Monday through Friday, excluding holidays, unless otherwise stipulated.

#### 17. INSPECTION/ACCEPTANCE

All goods and/or services provided on this Purchase Order are subject to inspection and acceptance upon receipt or completion by an authorized representative of the County. Payment shall not be authorized until the goods and/or services have been received, accepted and properly invoiced.

#### 18. QUANTITIES

Quantities specified in the order/contract cannot be changed without County approval. Goods shipped in excess of quantity designated may be returned at Vendor's expense.

### 19. DISCRIMINATION PROHIBITED

Pursuant to Palm Beach County Resolution R-2014-1421, as may be amended, all Vendors doing business with the County shall treat all of its employees equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status, familial status, sexual orientation, gender identity and expression or genetic information. All Vendors shall comply with the following and may use the "Non-Discrimination Policy" form to show compliance. Vendor shall submit to County a copy of its non-discrimination policy, which shall be consistent with the foregoing non-discrimination policy; **OR**, in the event Vendor **does not** have a written non-discrimination policy or one that conforms to the County's policy, the Vendor shall sign and submit to County a statement affirming that it will conform to the County's non-discrimination policy as set forth in the above-referenced Resolution. The Vendor shall satisfy the requirements set forth herein prior to execution of a contract with County and within a time frame specified by County (normally within two (2) working days of request). Failure to satisfy this requirement—shall render your quote non-responsive. It is the responsibility of the Vendor to maintain a written or non-written non-discrimination policy that conforms to the County's policy as set forth herein throughout the term of the contract. Failure to meet this requirement shall be considered default of contract.

### 20. LEGAL REQUIREMENTS

The Vendor must strictly comply with all Federal, State, County and local laws, ordinances, rules and regulations that in any manner affect the goods and/or services provided herein. The UCC shall prevail as the basis for contractual obligations between the Vendor and the County for any terms and conditions not addressed. The County shall not be liable to the Vendor for any legal fees, court costs, or other legal expenses arising from the interpretation or enforcement of this order/contract, or from any other matter generated by or relating to this order/contract.

### 21. CRIMINAL HISTORY RECORDS CHECK ORDINANCE

Pursuant to Palm Beach County Code Section 2-371 through 2-377, the Palm Beach County Criminal History Records Check Ordinance ("Ordinance"), the County shall conduct fingerprint based criminal history record checks on all persons not employed by the County who repair, deliver, or provide goods or services for, to, or on behalf of the County. A fingerprint based criminal history record check shall be conducted on all employees and subcontractors of vendors, including repair persons and delivery persons, who are unescorted when entering a facility determined to be critical to the public safety and security of the County. County facilities that require this heightened level of security are identified in Resolution R-2003-1274, as may be amended. The vendor is solely responsible for understanding the financial, schedule, and staffing implications of this Ordinance. Further, the vendor acknowledges that its pricing offered includes any and all direct or indirect costs associated with compliance of this Ordinance, except for the applicable FDLE/FBI fees that shall be paid by the County.

### 22. PUBLIC ENTITY CRIMES

In accordance with the Florida Public Entity Crime Statute 287.132.133, persons and affiliates who are entering into a contract or performing any work in furtherance with Palm Beach County certifies that it, its affiliates, suppliers, subcontractors and consultants who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within the thirty-six (36) months immediately preceding the date hereof. This notice is required by Florida Statute 287.133 (3) (a).

### 23. SBE PROGRAM

#### Item 1 – Policy

It is the policy of the Board of County Commissioners of Palm Beach County, Florida, that SBE(s) have the maximum practical opportunity to participate in the competitive process of supplying goods and services to the County. To that end, the Board of County Commissioners adopted a Small Business Ordinance which is codified in Sections 2-80.21 through 2-80.34 (as amended) of the Palm Beach County Code, which sets forth the County's requirements for the SBE program, and is incorporated in this solicitation. Compliance with the requirements contained in this section shall result in a vendor being deemed responsive to SBE requirements. The provisions of this Ordinance are applicable to this solicitation, and shall have precedence over the provisions of this solicitation in the event of a conflict.



**Item 2 – Contract Award Criteria**

For purchases made as a result of this solicitation, the County shall make an award to the vendor who is certified as a small business with Palm Beach County and who is within 10% of the lowest responsive, responsible vendor, providing that the small business is also deemed responsive and responsible to the terms and conditions of the solicitation.

**Item 3 – SBE Certification**

Only those firms certified as a small business enterprise by Palm Beach County at the time of quote submission shall be counted toward the established SBE goals. Upon receipt of a complete application, **IT TAKES UP TO NINETY (90) DAYS TO BECOME CERTIFIED AS AN SBE WITH PALM BEACH COUNTY.** It is the responsibility of the vendor to confirm the certification of any proposed SBE; therefore, it is recommended that vendors visit the on-line Vendor Directory at [www.pbcgov.org/osba](http://www.pbcgov.org/osba) to verify SBE certification.

**Item 4 – Decertification**

As part of the consideration for quote award under the SBE Ordinance, any firm/proposer decertified by Palm Beach County shall be considered non-responsive to the SBE requirements.

**24. LOCAL PREFERENCE ORDINANCE**

In accordance with the Palm Beach County Local Preference Ordinance, a preference may be given to (1) quoters having a permanent place of business in Palm Beach County or (2) quoters having a permanent place of business in the Glades that are able to provide the goods or services within the Glades.

- A. Glades Local Preference: Pursuant to the Palm Beach County Local Preference Ordinance, a 5% Glades Local Preference is given when a Glades business offers to provide the goods or services that will be procured for use in the Glades. If the lowest responsive, responsible quoter is a non-Glades business, all quotes received from responsive, responsible Glades businesses may be decreased by 5%. The original quote amount is not changed. The 5% decrease given for the Glades Local Preference is calculated only for the purpose of determining ranking and award.
- B. Local Preference: Pursuant to the Palm Beach County Local Preference Ordinance, a 5% Local Preference is given to quoters having a permanent place of business in Palm Beach County. If the lowest responsive, responsible quoter is a non-local business; all quotes received from responsive, responsible local businesses may be decreased by 5%. The original quote amount is not changed. The 5% decrease given for the Local Preference is calculated only for the purpose of determining ranking and award.
- C. To receive a Glades Local Preference or a Local Preference (collectively referred to as "local preference"), a quoter must have a permanent place of business in existence prior to the County's issuance of this Request for Quotation. A permanent place of business means that the quoter's headquarters is located in Palm Beach County or in the Glades, as applicable; or, the quoter has a permanent office or other site in Palm Beach County or in the Glades, as applicable, where the quoter will produce a substantial portion of the goods or services to be purchased. A valid Business Tax Receipt issued by the Palm Beach County Tax Collector is required, unless the quoter is exempt from the business tax receipt requirement by law, and will be used to verify that the quoter had a permanent place of business prior to the issuance of this Request for Quotation. In addition, the attached "Certification of Business Location" and Business Tax Receipt must accompany the quote at the time of quote submission. The Palm Beach County Business Tax Receipt and this Certification are the sole determinant of local preference eligibility. Errors in the completion of this Certification or failure to submit this completed Certification will cause the quoter to not receive a local preference.

**25. INDEMNIFICATION**

To the extent authorized by law, Vendor shall indemnify, save and hold harmless the County, its employees and agents against any and all claims, damages, liability and court awards including costs, expenses and attorney fees incurred as a result of any act or omission by the Vendor, or its employees, agents, subcontractors or assignees pursuant to the terms and conditions of this order/contract.

**26. SAFETY DATA SHEETS (SDS)**

Any toxic substance provided to the County as a result of this solicitation or resultant order/contract shall be accompanied by its SDS.

**27. ENDORSEMENTS**

No endorsements by the County of the goods and/or services will be used by the Vendor in any way, manner or form.

**28. VENUE AND GOVERNING LAW**

Any and all legal actions arising from or necessary to enforce this order/contract will be held in Palm Beach County and shall be interpreted according to the laws of Florida.

**29. PUBLIC RECORDS**

Any information submitted relating to this order/contract will become a public document pursuant to Section 119.07, Florida Statutes.

**30. SALES PROMOTIONS / PRICE REDUCTIONS**

Should sales promotions occur during the term of the order/contract that lower the price of the procured item, the successful vendor shall extend to the County the lower price offered by the manufacturer on any such promotional item. Further, any price decreases effectuated during the order/contract period by reason of market change or otherwise, shall be passed on to the County. Additionally, anytime after award, the vendor may offer a reduced price which shall remain in effect for the duration of the order/contract.

**31. PERFORMANCE DURING EMERGENCY**

By submitting an offer, vendor agrees and promises that, during and after a public emergency, disaster, hurricane, flood, or acts of God, the County shall be given "first priority" for all goods and services under this order/contract. Vendor agrees to provide all goods and services to the County during and after the emergency at the terms, conditions, and prices as provided in this solicitation on a "first priority" basis. Vendor shall furnish a 24-hour phone number to the County in the event of such an emergency. Failure to provide the stated priority during and after an emergency shall constitute breach of contract and make the vendor subject to sanctions from doing further business with the County.

**32. PALM BEACH COUNTY OFFICE OF THE INSPECTOR GENERAL AUDIT REQUIREMENTS**

Pursuant to Palm Beach County Code, Section 2-421-2-440, as amended, Palm Beach County's Office of Inspector General is authorized to review past, present and proposed County contracts, transactions, accounts, and records. The Inspector General's authority includes, but is not limited to, the power to audit, investigate, monitor, and inspect the activities of entities contracting with the County, or anyone acting on their behalf, in order to ensure compliance with contract requirements and to detect corruption and fraud.

**33. BUSINESS INFORMATION**

If vendor is a Joint Venture for the goods/services described herein, vendor shall, upon request of Palm Beach County, provide a copy of the Joint Venture Agreement signed by all parties.

## SPECIAL CONDITIONS

### 34. GENERAL / SPECIAL CONDITION PRECEDENCE

In the event of conflict between General Conditions and Special Conditions, the provisions of the Special Conditions shall have precedence.

### 35. AWARD (ALL-OR-NONE)

Palm Beach County shall award this bid to the lowest, responsive, responsible bidder on an all-or-none, total offer basis. Therefore, it is necessary for a bidder to bid on every item in order to have a bid considered. It is also required that the bidders carefully consider each item, and make sure that each one meets the specifications as indicated. In the event that one item does not meet such specifications the entire bid will be considered non-responsive. Additionally, if a bidder enters a No Bid, or N/A for any item, they will be considered non-responsive.

### 36. METHOD OF ORDERING (PURCHASE ORDER)

Items shall be ordered via individual purchase order. Invoices shall reflect the purchase order number.

### 37. F.O.B. POINT

The F.O.B. point shall be destination. Exact delivery point will be indicated on the purchase order. Bid responses showing other than F.O.B. destination shall be rejected. Bidder retains title and assumes all transportation charges, responsibility, liability and risk in transit, and shall be responsible for the filing of claims for loss or damages.

### 38. AS SPECIFIED

A purchase order will be issued to the successful bidder with the understanding that all items delivered must meet the specifications herein. Palm Beach County will return, at the expense of the successful bidder, items not delivered as specified.

### 39. ADDITIONAL QUANTITIES

For a period not exceeding twelve (12) months from the date of award, Palm Beach County reserves the right to purchase from the successful bidder any amount of additional items at the prices offered in response to this solicitation and under the same Terms and Conditions, upon mutual written agreement.

### 40. INFORMATION AND DESCRIPTIVE LITERATURE (Brand Name "or equal")

Unless otherwise stated in these specifications, any manufacturer's names, trade names, brand names, information or catalog numbers listed in this specification are for information and not intended to limit competition. When the phrase "or equal" is used, the bidder may offer any manufacturer/brand for which they are an authorized dealer/distributor/reseller, which meets or exceeds the specifications for any item listed in the bid. **Bidder shall enter the manufacturer/brand and manufacturer/brand part/model number on the bid response page.** If a bidder enters "as specified", "same as above", or any wording other than the manufacturer/brand and part/model number, and does not fill in the manufacturer/brand offered and part/model number offered for any item, the bid shall be rejected. **Unless offering the specified manufacturer/brand and part/model numbers, the bidder shall submit with their bid response, manufacturer cut sheets, sketches, descriptive literature and/or complete specifications for said item(s). Literature shall provide matching product numbers to those offered on the Bid Response page and sufficient detail to verify compliance to bid specifications.** The failure of the descriptive literature to show that the item(s) offered conforms to the requirements of this solicitation shall result in the rejection of the bid. Reference to literature submitted with a previous bid or literature which has been created by any entity other than the manufacturer shall not satisfy this provision. The County reserves the sole right to determine acceptance of offered item (s) as an approved equal.

Note: At the sole discretion of Palm Beach County, samples may be requested, after bid submittal, to complete and/or verify compliance to bid specifications.

### 41. WARRANTY

The successful bidder shall furnish factory/manufacturer warranty on all chemicals furnished hereunder against defect in materials and/or workmanship. The factory/manufacturer warranty shall become effective on the date of delivery and acceptance by Palm Beach County. Should any defect in materials or workmanship, excepting ordinary wear and tear, appear during the above stated warranty period, the successful bidder shall repair or replace same at no cost to Palm Beach County.

**SPECIFICATIONS  
RFQ #112315-126/ZG**

**MEMBRANE CLEANING CHEMICALS, PURCHASE AND DELIVERY OF**

**PURPOSE AND INTENT**

The sole purpose and intent of this Request for Quotation (RFQ) is to obtain firm, fixed pricing for the purchase and delivery of Membrane Cleaning Chemicals for the Palm Beach County Water Utilities Department.

**INFORMATION AND DESCRIPTIVE LITERATURE (Brand Name "or equal")**

Unless otherwise stated in these specifications, any manufacturer's names, trade names, brand names, information or catalog numbers listed in this specification are for information and not intended to limit competition. When the phrase "or equal" is used, the bidder may offer any manufacturer/brand for which they are an authorized dealer/distributor/reseller, which meets or exceeds the specifications for any item listed in the bid. **Bidder shall enter the manufacturer/brand and manufacturer/brand part/model number on the bid response page.** If a bidder enters "as specified", "same as above", or any wording other than the manufacturer/brand and part/model number, and does not fill in the manufacturer/brand offered and part/model number offered for any item, the bid shall be rejected. **Unless offering the specified manufacturer/brand and part/model numbers, the bidder shall submit with their bid response, manufacturer cut sheets, sketches, descriptive literature and/or complete specifications for said item(s). Literature shall provide matching product numbers to those offered on the Bid Response page and sufficient detail to verify compliance to bid specifications.** The failure of the descriptive literature to show that the item(s) offered conforms to the requirements of this solicitation shall result in the rejection of the bid. Reference to literature submitted with a previous bid or literature which has been created by any entity other than the manufacturer shall not satisfy this provision. The County reserves the sole right to determine acceptance of offered item (s) as an approved equal.

**TECHNICAL REQUIREMENTS**

Membrane Cleaning Chemicals shall be manufactured by **AWC** or equal, meeting or exceeding the following salient characteristics:

**ITEM #1 – AWC, C-237 OR EQUAL**

- Shall be compatible with all thin film composite membranes.
- Shall maintain a pH range of 11.0 to 12.0 at three times the recommended.
- Shall contain alkalinity agents for stability.
- Shall be concentrated liquid form that is completely soluble.
- Shall remove the following: organic foulants and biofilms, and metal oxide deposits.
- Shall be NSF approved for use as a membrane cleaner in potable water systems.
- Shall be buffered so as not to exceed a pH of 12.
- Safety Data Sheet (MSDS) shall be provided for this item.
- Shall be delivered in 55 gallon drums (580 lbs per drum)

**ITEM #2 – AWC, C-236 OR EQUAL**

- Shall be liquid.
- pH shall be 12 maximum.
- Shall be clear yellow in color.
- Shall have a slight odor.
- Shall be completely soluble.
- Shall be NSF approved for use as a membrane cleaner in potable water systems.
- Shall be delivered in delivered in 55 gallon drums (625 lbs per drum)

**PAYMENT**

Payment is based on the unit price provided on the quote response page. Payment shall be rendered ONLY upon the County's satisfaction and acceptance of items delivered. Price shall include, but is not limited to, all supervision, labor, equipment, materials, tools, machinery, transportation, travel, manpower, fuel, mobilization, demobilization and other facilities and services necessary to fully and completely provide the items as specified herein. No additional compensation shall be offered or paid.

**RESPONSE PAGE  
RFQ #112315-126/ZG**

**MEMBRANE CLEANING CHEMICALS, PURCHASE AND DELIVERY OF**

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL OFFER
1.	<p>HIGH PH MEMBRANE CLEANER, MFR: AWC, MODEL #C-237 OR EQUAL, DELIVERED IN 55 GALLON DRUM (580 LBS PER DRUM), AS SPECIFIED HEREIN.</p> <p>MFR/BRAND OFFERED: <u>American Water Chemicals</u> (MUST BE FILLED IN)</p> <p>MFR/BRAND MODEL # OFFERED: <u>AWC C-237</u> (MUST BE FILLED IN)</p> <p><small>(MFR/BRAND AND MFR/BRAND MODEL # OFFERED MUST MATCH THE DESCRIPTIVE LITERATURE PROVIDED BY VENDOR).</small></p>	12	DRUMS	\$ <u>1,508.00</u>	\$ <u>18,096.00</u>
2.	<p>MEMBRANE CLEANER, MFR: AWC, MODEL #C-236 OR EQUAL, DELIVERED IN 55 GALLON DRUM (625 LBS PER DRUM), AS SPECIFIED HEREIN.</p> <p>MFR/BRAND OFFERED: <u>American Water Chemicals</u> (MUST BE FILLED IN)</p> <p>MFR/BRAND MODEL # OFFERED: <u>AWC C-236</u> (MUST BE FILLED IN)</p> <p><small>(MFR/BRAND AND MFR/BRAND MODEL # OFFERED MUST MATCH THE DESCRIPTIVE LITERATURE PROVIDED BY VENDOR).</small></p>	12	DRUMS	\$ <u>1,483.00</u>	\$ <u>17,796.00</u>
<b>TOTAL OFFER:</b>					\$ <u>35,892.00</u>

All unit prices bid should be within two (2) decimal points. If vendor's pricing exceeds two (2) decimal points, Purchasing reserves the right to round up or down accordingly.

Delivery shall be 3 days ARO.

Acknowledge Non-Discrimination Policy Form is included as specified herein?

YES/INITIAL inc


Acknowledge Information and Descriptive Literature is included and that the manufacturer/brand and part/model number offered matches the descriptive literature provided by vendor, per Term & Condition #40?

YES/INITIAL inc

**\* PLEASE AFFIX SIGNATURE WHERE INDICATED  
(FAILURE TO DO SO SHALL RESULT IN THE REJECTION OF YOUR RFQ)**

By signature on this document, vendor acknowledges and agrees that its offer includes and accepts all terms, conditions, and specifications of the County's RFQ solicitation as originally published, without exception, change or alteration of any kind, except as may have been published by the County in official amendments prior to the submission time.

Per General Term and Condition #33, if vendor is a Joint Venture for the goods/services described herein, vendor shall, upon request of Palm Beach County, provide a copy of the Joint Venture Agreement signed by all parties.

FIRM NAME: (Enter the entire legal name of the quoting entity) <u>American Water Chemicals, Inc.</u>		DATE: <u>12/9/15</u>
* SIGNATURE: 		PRINT NAME: <u>Rudy Canezo</u> PRINT TITLE: <u>Treasurer</u>
ADDRESS: <u>1802 Corporate Center Lane</u>		
CITY/STATE: <u>Plant City, Fl</u>		ZIP CODE: <u>33563</u>
TELEPHONE # ( 813 ) <u>246-5448</u>		E-MAIL: <u>customerservice@membranechemicals.com</u>
TOLL FREE # ( )		FAX #: ( 813 ) <u>623-6678</u>
APPLICABLE LICENSE(S) NUMBER # _____ TYPE: _____		
FEDERAL ID # <u>95-4412808</u>		

**NON-DISCRIMINATION POLICY**  
**RFQ #112315-126/ZG**

Pursuant to Palm Beach County Resolution R-2014-1421, as may be amended, it is the policy of the Board of County Commissioners of Palm Beach County that Palm Beach County shall not conduct business with nor appropriate any funds for any organization that practices discrimination on the basis of race, color, national origin, religion, ancestry, sex, age, familial status, marital status, sexual orientation, gender identity and expression, disability, or genetic information.

All quoters doing business with Palm Beach County are required to submit a copy of its non-discrimination policy which shall be consistent with the policy of Palm Beach County stated above, prior to entering into any contract with Palm Beach County. In the event a quoter does not have a written non-discrimination policy or one that conforms to Palm Beach County's policy, such quoter shall be required to check the applicable statement and sign below affirming it will conform to Palm Beach County's policy.

Check one:

Quoter hereby acknowledges that it does not have a written non-discrimination policy or one that conforms to Palm Beach County's policy and Quoter hereby acknowledges and affirms by signing below that it will conform to Palm Beach County's non-discrimination policy as provided in Palm Beach County's Resolution R-2014-1421, as may be amended.

**OR**

Quoter hereby attaches its non-discrimination policy which is consistent with the policy of Palm Beach County.

**OR**

Quoter hereby attaches its non-discrimination policy which does not conform to the policy of Palm Beach County; however, Quoter hereby **acknowledges and affirms by signing below** that it will conform to Palm Beach County's non-discrimination policy as provided in Palm Beach County's Resolution R-2014-1421, as may be amended.

**NOTE:**


Quoter's failure to either: (i) have a written or non-written non-discrimination policy in conformance with Palm Beach County's policy set forth above; or (ii) provide Palm Beach County with the information set forth above, will render quoter non-responsive.

Quoter shall notify Palm Beach County in the event it no longer maintains a written or non-written non-discrimination policy that is in conformance with Palm Beach County's policy set forth above. Failure to maintain said non-discrimination policy shall be considered a default of contract.

**QUOTER:**

American Water Chemicals, Inc.

Company Name



Signature

Rudy Canezo

Name (type or print)

Treasurer

Title

**CERTIFICATION OF BUSINESS LOCATION  
RFQ #112315-126/ZG**

In accordance with the Palm Beach County Local Preference Ordinance, as amended, a preference may be given to: (1) quoters having a permanent place of business in Palm Beach County ("County") or (2) quoters having a permanent place of business in the Glades that are able to provide the goods and/or services to be utilized within the Glades. To receive a local preference, quoters must have a permanent place of business within the County or the Glades, as applicable, prior to the County's issuance of the solicitation. A Business Tax Receipt which is issued by the Palm Beach County Tax Collector, authorizes the quoter to provide the goods/services being solicited by the County, and will be used to verify that the quoter had a permanent place of business prior to the issuance of the solicitation. The quoter must submit this Certification of Business Location ("Certification") along with the required Business Tax Receipt at the time of quote submission. The Business Tax Receipt and this Certification are the sole determinant of local preference eligibility. Errors in the completion of this Certification or failure to submit this completed Certification will cause the quoter to not receive a local preference.

In instances where the quoter is exempt by law from the requirement of obtaining a Business Tax Receipt, the quoter must: (a) provide a citation to the specific statutory exemption; and (b) provide other documentation which clearly establishes that the quoter had a permanent place of business within the County or the Glades prior to the date of issuance of the solicitation. The County hereby retains the right to contact said quoters for additional information related to this requirement after the quote due date.

I. Quoter is a:

\_\_\_\_\_ Local Business: A local business has a permanent place of business in Palm Beach County.

(Please indicate):

\_\_\_\_\_ Headquarters located in Palm Beach County  
\_\_\_\_\_ Permanent office or other site located in Palm Beach County from which a vendor will produce a substantial portion of the goods or services.

\_\_\_\_\_ Glades Business: A Glades business has a permanent place of business in the Glades.

(Please indicate):

\_\_\_\_\_ Headquarters located in the Glades  
\_\_\_\_\_ Permanent office or other site located in the Glades from which a vendor will produce a substantial portion of the goods or services.

II. The attached copy of quoter's County Business Tax Receipt verifies quoter's permanent place of business.

THIS CERTIFICATION is submitted by \_\_\_\_\_, as  
(Name of Individual)

\_\_\_\_\_, of \_\_\_\_\_  
(Title/Position) (Firm Name of Quoter)

who hereby certifies that the information stated above is true and correct and that the County Business Tax Receipt is a true and correct copy of the original. Further, it is hereby acknowledged that any misrepresentation by the quoter on this Certification will be considered an unethical business practice and be grounds for sanctions against future County business with the quoter.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)



**Equal Opportunity Employer Statement**

American Water Chemicals Inc. is an equal opportunity employer and makes employment decisions on the basis of merit. We want to have the best available persons in every job. Company policy prohibits unlawful discrimination based on race, color, creed, sex, marital status, age, national origin, physical handicap, disability, medical condition or ancestry, or any other consideration made unlawful by federal, state or local laws. All such discrimination is unlawful.

American Water Chemicals Inc. is committed to complying with all applicable laws providing equal employment opportunities to individuals regardless of race, color, creed, sex, marital status, age, national origin, physical handicap, disability, medical condition or ancestry. This commitment applies to all persons involved in the operations of the company and prohibits unlawful discrimination by any employee or the company, including supervisors and co-workers.

# AWC C-237

## Reverse Osmosis Membrane Cleaning Compound

### ADVANTAGES

- Concentrated liquid formulation designed for use as a high pH cleaner of polyamide thin film composite membrane surfaces
- Works to remove the most stubborn biofilms and organic foulants
- Supports the cleaning of acid insoluble sulfates of calcium, barium and strontium as well as calcium fluoride
- Effective in removal of metal oxide deposits when used in a pH range of 9 – 10.5
- Buffered so as not to exceed a pH of 12
- May eliminate need for repeat cleanings where severe fouling exists
- Compatible with all Thin Film Composite R.O. membranes from all major membrane suppliers
- Certified by NSF to NSF/ANSI Standard 60 for use in potable systems

### TYPICAL PROPERTIES

Appearance	Clear colorless to light yellow liquid
Odor	Slight characteristic odor
Solubility	Complete
pH (as is)	>12
Specific Gravity	1.1 ± 0.10

### PACKAGING

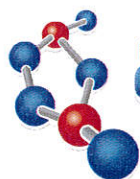
5 gallon pails, 55 gallon non-returnable plastic drums and 275 gallon totes

### SAFETY AND HANDLING

Store in cool, dry and well ventilated area. Keep containers closed. Wash contaminated clothes before re-use. Wash thoroughly after handling. For more information, see the Safety Data Sheet provided with this product.

### CHEMICAL FEEDING AND CONTROL

The cleaning solution should be prepared using potable water that is free of residual chlorine or other oxidizing agents. Add 2 gallons of AWC C-237 to every 100 gallons of water (2 % solution). Adjust the pH in the range 10–11. Recirculate the cleaning solution throughout the system, after redirecting the first 20% of the solution to drain. Do not exceed pressures, temperatures and flow rates recommended by the membrane manufacturer. Cleaning efficacy can be further improved by heating the cleaning solution and alternately circulating the solution for 15 minutes and then soaking the membranes for 15 minutes. This should be repeated as many times as necessary. The pH range should be monitored periodically throughout the cleaning. When pH drops below the desired range, it should be adjusted by adding more AWC C-237. Optimal iron removal occurs at pH of 8.5 – 10.5.



**awc**

ISO 9001-2008 Certified Company

**MembraneChemicals.com**

1802 Corporate Center Lane | Plant City, FL 33563 USA | +1-813-246-5448 | info@membranechemicals.com



**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

IDENTITY <b>AWC C-237</b>
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**Section I Company and Product Identification**

AMERICAN WATER CHEMICALS, INC. 1802 Corporate Center Lane Plant City, FL 33563	Telephone Number: (813)-246-5448  Chemtrec phone Number: In the U.S.: 1-800-424-9300 International: 1-703-527-3887 CONTRACT #: CCN1259
Date Prepared: 11/21/03	Date Revised: April 2015

Trade Name	AWC C-237
Product Family	RO, NF membrane cleaner

**Section II – Hazards Identification**

Signal Word : <b>WARNING</b> Acute Toxicity: Oral, Category 5 May be harmful if swallowed. Skin Corrosion/Irritation, Category 5 May be harmful in contact with skin Inhalation: Category 5 May be harmful if inhaled	
<b>GHS Hazard Phrases</b>	H303 + H313: May be harmful if swallowed or in contact with skin
<b>GHS Precaution Phrases</b>	P103: Read label before use
<b>GHS Response Phrases</b>	P311: Call a poison center/doctor/...if you feel unwell
<b>GHS Storage and Disposal Phrases</b>	Please refer to section 7 for storage and section 13 for Disposal information

<b>Route(s) of Entry:</b>	<b>Inhalation?</b> No	<b>Skin?</b> No	<b>Ingestion?</b> No
<b>Health Hazards (Effects of Acute and Chronic Overexposure)</b>			
<b>Inhalation:</b> May be harmful if inhaled.			
<b>Eye Contact:</b> May cause eye irritation.			
<b>Skin Contact:</b> May be slightly irritating to skin			
<b>Ingestion (Swallowing):</b> May be harmful if swallowed			

**Section III - Hazard Ingredients/Composition Information**

Components (Specific Chemical Identity; Common Name(s))	CAS #	%
ETHANOL, 2-AMINO	141-43-5	< 10%

This product is not considered as hazardous under OSHA's Hazard Communication Standard 29CFR 1910.1200

**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

**Section IV – First Aid Procedures**

<b>Inhalation:</b> If nasal, throat or lung irritation develops, remove to fresh air and get medical attention.
<b>Eye Contact:</b> Immediately flush eyes with plenty of low pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.
<b>Skin Contact:</b> Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.
<b>Ingestion (Swallowing):</b> Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility. Do not give anything by mouth to an unconscious person.

**Section V - Fire Fighting Measures**

<b>Flash Point (Method Used)</b> None	<b>Flammable Limits:</b> NE
<b>Extinguishing Media:</b> To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical, or foam.	
<b>Auto ignition temp:</b> Noncombustible.	
<b>Special Fire Fighting Procedures and Protective Equipment:</b> Keep people away. Isolate fire area and deny unnecessary entry. Wear positive pressure self contained breathing apparatus (SCBA) and protective fire fighting clothing ( includes fire fighting helmet, coat, pants, boots and gloves.) If protective equipment is not available or not used, fight fire from a protected location or safe distance	
<b>Unusual Fire and Explosion Hazard:</b> This material will no burn until the water has evaporated. Residue can burn	
<b>Hazardous Decomposition or Combustion Byproducts:</b> Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/ or irritating compounds. Hazardous combustion products may include and are not limited to: Nitrogen oxides, carbon monoxide, carbon dioxide.	

**Section VI – Accidental Release Measures**

<b>Steps to Be Taken in Case Material is Released or Spilled:</b> PROTECT PEOPLE: Evacuate area. Keep upwind of spill. Ventilate area of leak or spill. Only trained and properly protected personnel must be involved in clean up operations. Refer to Section 7, handling for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to section 8, Exposure Controls/ Personal Protection.
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**Section VII - Handling and Storage**

<b>Precautions to Be taken in Handling (General):</b>	Precautions to Be taken in Handling and Storing (General): Do not get in eyes. Avoid breathing vapor. Avoid contact with skin or clothing. Do not swallow. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
<b>Precautions for safe storage and any incompatibilities</b>	Store in cool, dry location away from sunlight. Keep containers tightly closed when not in use. Do not store in aluminum, carbon steel, copper, copper alloys, zinc.

**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

**Section VIII – Exposure Controls and Personal Protection**

Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	TWA8 ACGIH	STEL ACGIH	Other Limits Recommended
ETHANOL, 2-AMINO	3 ppm	3 ppm	6 ppm	NA

<b>Primary Route of Exposure:</b> None known	
<b>Target Organs:</b> None Known	
<b>Respiratory Protection:</b> In misty atmospheres, use an approved mist respiration.	
<b>Skin Protection:</b> Rubber or plastic-impervious and/or waterproof.	
<b>Protective Gloves:</b> standard work gloves for handling powder	<b>Eye Protection:</b> Splash proof safety goggles.
<b>Other Protective Clothing or Equipment:</b> Use chemical goggles. Eye wash fountain should be located in immediate work area.	

**Section IX - Physical/Chemical Characteristics**

<b>Boiling Point:</b> N/A	<b>Percent Volatile:</b> NE
<b>Viscosity :</b> (Brookfield) NE	<b>Specific Gravity (H2O = 1):</b> 1.10± 0.10
<b>Solubility in Water:</b> Completely miscible	<b>pH:</b> > 12
<b>Appearance and Odor:</b> Colorless to slightly tan powder with slight odor.	

NR: NOT REQUIRED, NE: NOT ESTABLISHED, NA: NOT APPLICABLE

**Section X – Stability & Reactivity Data**

<b>Stability:</b> Stable under normal conditions.
<b>Conditions to avoid:</b> Active ingredient decomposes at elevated temperatures
<b>Incompatibility (Materials to Avoid):</b> Flammable hydrogen may be generated from contact of concentrated product with metals such as aluminum. This will not occur at dose levels.
<b>Hazardous Decomposition Products:</b> None known
<b>Hazardous Polymerization:</b> Does not occur
<b>Condition to avoid:</b> None known
<b>Additional Information:</b> none

**Section XI– Toxicological Information**

Available data on closely related material indicates the following: Oral LD50 RAT: >2,000 mg/kg NOTE - Estimated value Dermal LD50 RABBIT: >2,000 mg/kg NOTE - Estimated value
--

**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

**Section XII – Ecological Information**

Available data on closely related material indicates the following:  
 Aquatic Toxicology  
 Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)  
 LC50= 342; No Effect Level= 250 mg/L  
 Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)  
 LC50= 61.6; No Effect Level= 25 mg/L  
 Biodegradation  
 BOD-28 (mg/g): 142  
 BOD-5 (mg/g): 130  
 COD (mg/g): 805  
 TOC (mg/g): 242

**Section XIII - Disposal Consideration**

**Waste Disposal Method:**  
 DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**Section XIV - Transport information**

D.O.T. Proper Shipping Name: N/A	D.O.T. Hazard Class: N/A
	D.O.T. LABEL: N/A
ID No: N/A	Packing Group: N/A

**Section XV - Regulatory information**

This product does not contain hazardous substances at levels which require reporting.

**Section XVI - Other information**

**NFPA RATINGS:**

<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>
1	0	0

The data contained in this material safety data sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentrations in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required.

# AWC C-236

## Reverse Osmosis Membrane Cleaning Compound

### ADVANTAGES

- Concentrated liquid formulation designed for use as a high pH silica cleaner on polyamide thin film composite membrane surfaces
- Dissolves polymerized silica scaling as well as colloidal silica fouling
- Removes greases, oils, inorganics and biofilms
- Chelates metal hydroxide deposits and some sulfate scales
- Does not contain any hydrofluoric acid or ammonium bifluoride
- Compatible with all Thin Film Composite R.O. membranes from all major membrane suppliers
- Certified by NSF to NSF/ANSI Standard 60 for use in potable systems

### TYPICAL PROPERTIES

Appearance	Clear yellow to amber liquid
Odor	Slight characteristic odor
Solubility	Complete
pH (as is)	>12
Specific Gravity	1.30 ± 0.10

### PACKAGING

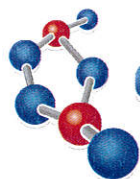
5 gallon pails, 55 gallon non-returnable plastic drums and 275 gallon totes

### SAFETY AND HANDLING

Store in cool, dry and well ventilated area. Keep containers closed. Wash contaminated clothes before re-use. Wash thoroughly after handling. For more information, see the Safety Data Sheet provided with this product.

### CHEMICAL FEEDING AND CONTROL

The cleaning solution should be prepared using potable water that is free of residual chlorine or other oxidizing agents. Add 2 gallons of AWC C-236 to every 100 gallons of water (2% solution). Adjust the pH in the range 12-13. Recirculate the cleaning solution throughout the system, after redirecting the first 20% of the solution to drain. Do not exceed pressures, temperatures and flow rates recommended by the membrane manufacturer. Cleaning efficacy can be further improved by heating the cleaning solution and alternately circulating the solution for 15 minutes and then soaking the membranes for 15 minutes. Repeat as many times as necessary. The pH range should be monitored periodically throughout the cleaning. When pH decreases below the desired range, it should be adjusted by adding more AWC C-236.



**awc**

ISO 9001-2008 Certified Company

**MembraneChemicals.com**

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**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563


IDENTITY <b>AWC C-236</b>
------------------------------

**Section I Company and Product Identification**

ALKEMA SOLUTIONS, INC. 1802 Corporate Center Lane Plant City, FL 33563	Telephone Number: (813)-246-5448  Chemtrec phone Number: In the U.S.: 1-800-424-9300 International: 1-703-527-3887 CONTRACT #: CCN1259
Date Prepared: 11/21/03	Date Revised: 11/26/2014

Trade Name	AWC C-236
Product Family	RO, NF membrane cleaner

**Section II – Hazards Identification**

<b>Corrosive Liquid</b>  Signal Word : Danger Acute Toxicity: Oral, Category 4 Harmful if Swallowed Skin Corrosion/Irritation, Category 1A Causes severe skin burns and eye damage	
<b>GHS Hazard Phrases</b>	H302: Harmful if swallowed H314: Causes Severe skin burns and eye damage
<b>GHS Precaution Phrases</b>	P264: Wash hands thoroughly after handling P260: Do not breathe dust, fumes, gas, vapor, spray. P280: Wear protective gloves, clothing, eye protection, face protection.
<b>GHS Response Phrases</b>	P301+312: IF SWALLOWED: call a poison center or doctor if you feel unwell P330: Rinse mouth P303+361+353: IF ON SKIN or hair Remove/take off all contaminated clothing rinse skin with water/shower P363: Wash contaminated clothing before reuse P305+351+338" IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P301+330+331: IF SWALLOWED Rinse mouth do NOT induce vomiting. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310: Immediately call a poison center
<b>GHS Storage and Disposal Phrases</b>	Please refer to section 7 for storage and section 13 for Disposal information

<b>Route(s) of Entry:</b>	<b>Inhalation? Y</b>	<b>Skin? Y</b>	<b>Ingestion? Y</b>
<b>Health Hazards (Effects of Acute and Chronic Overexposure)</b>			
<b>Inhalation:</b> Mist may cause injury to entire respiratory tract.			

**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

<b>Eye Contact:</b> Will cause severe to permanent injury.
<b>Skin Contact:</b> Contact with concentrated solutions may cause serious burn to human tissue.
<b>Ingestion (Swallowing):</b> Damage throat area and gastro respiratory tract.

**Section III - Hazard Ingredients/Composition Information**

Hazardous Components (Chemical Name)	CAS #	%(optional)	EC #	Risk Phrases
Potassium Hydroxide Solution	1310-58-3	>10%	215-181-3	R22-35
Proprietary Blend of Cleaning Agents	N/A	>10%	N/A	N/A

**Section IV – First Aid Procedures**

<b>Inhalation:</b> Remove to fresh air and keep in rest position comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>Eye Contact:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin Contact:</b> Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion (Swallowing):</b> Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell. Call a doctor.

MOST IMPORTANT SYMPTOMS	
<b>Symptoms/Injuries after skin contact</b>	Causes severe skin burns and eye damage
<b>Symptoms/Injuries after eye contact</b>	Causes severe eye damage
<b>Symptoms/Injuries after ingestion</b>	Swallowing a small quantity of this material will result in a serious health hazard.

**Section V - Fire Fighting Measures**

<b>Flash Point (Method Used)</b> None	<b>Flammable Limits:</b> NE
<b>Extinguishing Media:</b> Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
<b>Auto ignition temp:</b> Noncombustible.	
<b>Special Fire Fighting Procedures and Protective Equipment:</b> Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.	
<b>Unusual Fire and Explosion Hazards:</b> This material is corrosive to all human tissue. It will react violently with many organic chemicals, especially nitrocarbons and chlorocarbons. Caustic potash reacts with zinc, aluminum, tin and other active metals liberating flammable hydrogen gas. Dilution with water evolves large amounts of heat.	
<b>Hazardous Decomposition or Combustion Byproducts:</b> Flammable hydrogen gas may be generated when product and certain metals react.	

**Section VI – Accidental Release Measures**

<b>Steps to Be Taken in Case Material is Released or Spilled:</b> Protective clothing and equipment must be worn by cleanup personnel. Contain spillage or leakage in suitable container or contain in a holding area. Do not allow drainage to sewers, streams or storm conduits. Recover with vacuum equipment such as a septic tank truck or neutralize with weak acid solutions and flush with water. Avoid splashing or misting which could increase health hazards.
<b>Additional Information:</b> Planning ahead is essential for handling spills. Proper equipment and trained employees should be readily available to correct a spill situation. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers and public waters. Avoid release to the environment.

**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

**Section VII - Handling and Storage**

<b>Precautions to Be taken in Handling (General):</b>	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray.  Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after Handling. Wash contaminated clothing before reuse.
<b>Precautions for safe storage and any incompatibilities</b>	Comply with applicable regulations.  Keep only in the original container in a cool, well ventilated place away from : incompatible Materials Keep container closed when not in use  NOT compatible with strong acids.  Sources of ignition. Direct sunlight

**Section VIII – Exposure Controls and Personal Protection**

Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	TWA8 ACGIH	STEL ACGIH	Other Limits Recommended
Potassium Hydroxide Solution	None	2 mg/m3	2 mg/m3	NA

<b>Primary Route of Exposure:</b> Body contact.
<b>Target Organs:</b> All human tissue damaged on contact.
<b>Respiratory Protection:</b> Wear appropriate mask.
<b>Skin Protection:</b> Rubber or plastic-impervious and/or waterproof.
<b>Protective Gloves:</b> Rubber, nitrile, neoprene, PVL.
<b>Eye Protection:</b> Splash proof safety goggles and face shield.
<b>Other Protective Clothing or Equipment:</b> Eye wash facility and safety shower in immediate area. Rubber boots. Rubbers over leather shoes are not recommended. Rubber apron, rainwear or disposal type suit with hard hat should be worn.

**Section IX - Physical/Chemical Characteristics**

<b>Boiling Point:</b> >100°C (212°F)	<b>Percent Volatile:</b> Approximately 50%
<b>Viscosity :</b> 8-12 cps @ 20° C	<b>Specific Gravity (H2O = 1):</b> 1.30 ± 0.10
<b>Solubility in Water:</b> Complete	<b>pH:</b> >12 @ 25°C
<b>Appearance and Odor:</b> Clear Yellow to Amber Liquid	

NR: NOT REQUIRED, NE: NOT ESTABLISHED, NA: NOT APPLICABLE

**Section X – Stability & Reactivity Data**

<b>Stability:</b> Stable under normal conditions.
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**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

<b>Conditions to avoid:</b> Do not allow contact with acids and metals such as aluminum, zinc and tin.
<b>Incompatibility (Materials to Avoid):</b> Concentrated acids, organic chemicals, nitrocarbons, halocarbons, and metals or alloys mentioned above.
<b>Hazardous Decomposition Products:</b> Flammable hydrogen gas may be generated when KOH and certain metals react.
<b>Hazardous Polymerization:</b> Will not polymerize.
<b>Condition to avoid:</b> Exposure to air can form potassium carbonate.
<b>This material reacts violently with acids. Reacts with aluminum, tin, zinc and generates flammable hydrogen gas.</b>
<b>Additional Information:</b> Trichloroethylene will react to form Dichloroacetylene, which is spontaneously flammable.

**Section XI– Toxicological Information**

Available data on closely related material indicates the following: <b>Acute Toxicity</b> Ingestion: LD50, Rat, male 3,030 mg/kg LD50, Rat, female 3,100 mg/kg Skin Absorption: LD50, Rabbit > 5,000 mg/kg Repeated Dose Toxicity: For the minor component(s): In animals, effects have been reported on the following organs: Kidney. In animals, has been shown to cause deposition of calcium salts in various urinary tract tissues. Chronic Toxicity and Carcinogenicity: Although large dietary doses of NTA have caused urinary tumors in laboratory animals, there is little likelihood that NTA could cause cancer in humans, especially at subtoxic doses. The trisodium salt of EDTA did not cause cancer in laboratory animals. Carcinogenicity Classifications: Nitrotriacetate, trisodium salt: IARC; Classification: Possible carcinogen.; 2B (NTA)
<b>Developmental Toxicity</b> EDTA and its sodium salts have been reported to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation.
<b>Genetic Toxicology</b> Most data indicate that EDTA and its salts are not mutagenic. Minimal effects reported are likely due to trace metal deficiencies resulting from chelating by EDTA.
<b>Mutagenic:</b> Not listed.
<b>Teratogenic:</b> Not listed.
<b>Reproductive Toxicity:</b> Not listed.
<b>Primary Route of Exposure:</b> Body contact.
<b>Target Organs:</b> All human tissue damaged on contact.

**Section XII – Ecological Information**

Available data on closely related material indicates the following: <b>Environmental Fate</b> Movement & Partitioning: Based on information for a similar material: Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Persistence and Degradability: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%). Biological oxygen demand (BOD): BOD 5: 15% BOD 10: 15% BOD 20: 15%
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**SAFETY DATA SHEET**

AMERICAN WATER CHEMICALS, INC.  
 1802 CORPORATE CENTER LANE  
 PLANT CITY, FL 33563

**BOD 28**  
 Theoretical Oxygen Demand: 1.31 mg/mg  
**Ecotoxicity:** Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L) .  
 Fish acute and prolonged toxicity LC50, fathead minnow (Pimephales promelas): > 100 mg/L

**Section XIII - Disposal Consideration**

**Waste Disposal Method:** Dispose of spillage waste per company contingency plan and in accordance with federal, state, and local regulations. Neutralized waste is composed of salt and water.

**Section XIV - Transport information**

D.O.T. Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (CONTAINS Potassium Hydroxide)	D.O.T. Hazard Class: 8 D.O.T. LABEL: CORROSIVE
ID No: UN 1760	Packing Group: II

**Section XV - Regulatory information**


**TSCA:**  
 All components of this product are listed in the TSCA inventory.  
 CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ): 10,000 gallons due to Potassium Hydroxide Solution;  
 SARA SECTION 312 HAZARD CLASS: Immediate (acute);Delayed(Chronic)  
 SARA SECTION 302 CHEMICALS: No regulated constituent present at OSHA thresholds  
 SARA SECTION 313 CHEMICALS: No regulated constituent present at OSHA thresholds  
 Potable Water Approval: This product is NSF/ANSI Standard 60 certified. Maximum use level = NA  
 [1] These products are designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.  
 [2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

**Section XVI - Other information**

**NFPA RATINGS:**

<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>
3	0	1

The data contained in this material safety data sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentrations in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required.

UTILITIES (561) 381-5351 O & M DIVISION/#9 PLANT 22438 SW 7TH STREET BOCA RATON FL 33433 ATTN: TOM DINEEN	CENTRAL PURCHASE ORDER   <b>BOARD OF COUNTY COMMISSIONERS</b> www.pbcgov.com	CPO 680 ZG122815000000000034  <b>IMPORTANT</b> THE ABOVE NUMBER MUST APPEAR ON ALL SHIPPING LABELS, PACKING SLIPS, TRANSPORT DOCUMENTS, INVOICES AND CORRESPONDENCE.																		
American Water Chemicals, Inc. Alkema Solutions 1802 Corporate Center Lane  Plant City FL 33563  Jessaca Townsend <span style="float: right;">813-246-5448</span>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">ORDER DATE</td> <td style="width:33%;">DELIVERY DATE</td> <td style="width:34%;">F.O.B.</td> </tr> <tr> <td>12-28-2015</td> <td>01-04-2016</td> <td>Destination</td> </tr> <tr> <td>VENDOR NUMBER</td> <td>VENDOR ADDRESS</td> <td>VENDOR CONTACT</td> </tr> <tr> <td>VC0000009895</td> <td>AD003</td> <td>PC00217</td> </tr> <tr> <td>BID/QUOTE/RFP NO</td> <td colspan="2">AGREEMENT NUMBER</td> </tr> <tr> <td> </td> <td colspan="2"> </td> </tr> </table>	ORDER DATE	DELIVERY DATE	F.O.B.	12-28-2015	01-04-2016	Destination	VENDOR NUMBER	VENDOR ADDRESS	VENDOR CONTACT	VC0000009895	AD003	PC00217	BID/QUOTE/RFP NO	AGREEMENT NUMBER					<b>BILL TO</b>  BOARD OF COUNTY COMMISSIONERS PALM BEACH COUNTY FINANCE DEPT. P.O. BOX 4036 WEST PALM BEACH, FL 33402-4036 TELEPHONE: 561-355-2912
ORDER DATE	DELIVERY DATE	F.O.B.																		
12-28-2015	01-04-2016	Destination																		
VENDOR NUMBER	VENDOR ADDRESS	VENDOR CONTACT																		
VC0000009895	AD003	PC00217																		
BID/QUOTE/RFP NO	AGREEMENT NUMBER																			

ITEM	QUANTITY	UNIT	COMMODITY CODE	ITEM DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	12.0000		88594	DRUM HIGH PH MEMBRANE CLEANER, 55 GALLON DRUM (580 LBS/DRUM) PER ALL TERMS, CONDITIONS AND SPECIFICATIONS OF RFQ 112315-126/ZG, SUBMITTED BY AMERICAN WATER CHEMICALS, RUDY CANEZO, ON 12/09/15.  15-78940 JMORALES2 MSDS: Material Safety Data Sheet is required HAZARDOUS MATERIAL:	1,508.00000	18,096.00
2	12.0000		88594	DRUM MEMBRANE CLEANER, 55 GALLON DRUM (625 LBS/DRUM) 15-78938 JMORALES2 MSDS: Material Safety Data Sheet is required HAZARDOUS MATERIAL:	1,483.00000	17,796.00

<b>TAX EXEMPTION INFORMATION</b>	STATE TAX EXEMPTION NUMBER 85-8012622286C-8 FEDERAL EXCISE TAX EXEMPTION NUMBER 59-74-0344K EXEMPTION CERTIFICATES WILL BE MAILED UPON REQUEST UNLESS AGREED TO OTHERWISE, PALM BEACH COUNTY'S STANDARD TERMS AND CONDITIONS ARE INCORPORATED IN THIS ORDER BY REFERENCE AT WEB ADDRESS: WWW.PBCGOV.COM/PURCHASING. ADDITIONAL TERMS & CONDITIONS WILL BE NOTED IN THIS ORDER WHEN APPLICABLE.	<b>BUYER</b>	<b>TELEPHONE</b>
<b>NOTE TO VENDOR</b>		ZULMA GASCA EMAIL: zgasca@pbcgov.org	561-616-6848
		<b>ORDER TOTAL</b> 35,892.00	

**NOTE:** Vendors may now choose to receive payment from Palm Beach County by Credit Card! If you are interested, please contact the Palm Beach Clerk & Comptroller at pbcpaymentmgr@mypalmbeachclerk.com or 561-355-3295.

P.B.C. PURCHASING DEPARTMENT  
 50 S. MILITARY TRAIL, SUITE 110  
 WEST PALM BEACH, FL 33415-3199  
 PHONE: 561 616-6800  
 FAX: 561 616-6811  
 www.pbcgov.com/purchasing

PAGE NUMBER: 1 OF 1  
  
 AUTHORIZED BY  
 PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

PRINT DATE: 12/28/15      RESP. DEPT: 680      UNIT: 6801  
 VENDOR E-MAIL: customerservice@membranechemicals.com

## **Sixth Order of Business**

8/8/2016



Hillsborough County Sole Source Contract  
File No. SS-P-0251-0-2014/MM

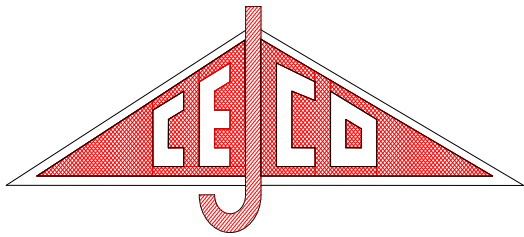
Board of Supervisors,

The wastewater plant provided in the 2015/2016 budget for the installation of hypochlorite pumps to replace the current problematic vacuum hypochlorite delivery system. These pumps provide hypochlorite for emergency disinfection and to remove algae buildup from the weirs on the treatment plants.

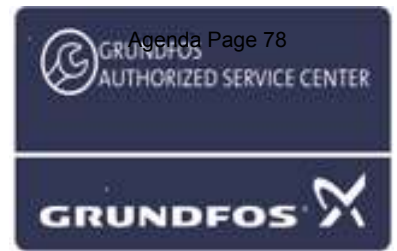
We have identified this contract between Hillsborough County and Carl Johnson Inc. that would provide CSID with a substantial discount on these pumps. Carl Eric Johnson Inc. has agreed to extend the terms of this contract to the District.

We request that the Board agree to this piggyback and approve for the purchase of 5 Grundfos DDA 30-4 AR-PVC/V/C-F-31I004BG digital pumps and cables for a total price of \$7,677.00

Sincerely,  
Timothy Martin  
C.S.I.D. WWTP Chief Operator



**Carl Eric Johnson, Inc.**  
1725 Q MacLeod Drive  
Lawrenceville, Georgia 30043  
Phone: 678-377-3100  
Fax: 678-377-2021



---

Date: 6/16/16

To: Tim Martin  
Coral Springs Utilities  
Coral Springs, Florida  
E-mail Address: timm@csidfl.org

From: Michael Cofer  
CEJCO Services  
E-mail: mcofer@cejco.net

Pages: 4

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## **Grundfos DDA-AR SMART Digital Pump and Accessories Quote**

Quote Number: 17-208 Grundfos

We are pleased to offer the following quotation for your consideration.

### **ITEM A**

Conditions: Customer called out pump Type Key

Type Key: DDA 17-7 AR-PVC/V/C-F-31I004BG

- Product Number: 97722575
- Capacity: 0.0045 to 4.5 GPH (0.17 to 17.0 l/h) up to 100 PSI (7 bar)
- Maximum Viscosity: 300 cps
- Control Variant: AR – see below for details
- Dosing Head Material: PVC
- Gaskets Material: Viton
- Check Valve Balls Material: Ceramic
- Control Panel Position: Front Fitted (change to left or right possible)
- Supply Voltage: 1ph / 100-240 volt / 50/60 Hz
- Check valves: Standard
- Suction / Discharge Connections: I004 – Hose – 3/8" x 1/2"
- Power Plug: USA / Canada
- Diaphragm: PTFE
- Turndown: 1000:1
- Shipping Weight: 6.0 lbs
- Installation Set: Contains 2 pump connections, foot valve, injection unit, 6 m PE discharge tube, 2 m PVC suction tube, 2 m PVC vent tube (4/6mm)

Net Price each pump: \$1,244.16

Quantity: FIVE

Extended price for Item A pumps: \$6,620.80

## ITEM B

Conditions: Customer called out pump Type Key

Type Key: DDA 30-4 AR-PVC/V/C-F-31I004BG

- Product Number: 97722677
- Capacity: 0.008 to 8.0 GPH (0.30 to 30.0 l/h) up to 60 PSI (4 bar)
- Maximum Viscosity: 150 cps
- Control Variant: AR – see below for details
- Dosing Head Material: PVC
- Gaskets Material: Viton
- Check Valve Balls Material: Ceramic
- Control Panel Position: Front Fitted (change to left or right possible)
- Supply Voltage: 1ph / 100-240 volt / 50/60 Hz
- Check valves: Standard
- Suction / Discharge Connections: I004 – Hose – 3/8" x 1/2"
- Power Plug: USA / Canada
- Diaphragm: PTFE
- Turndown: 1000:1
- Shipping Weight: 6.0 lbs
- Installation Set: Contains 2 pump connections, foot valve, injection unit, 6 m PE discharge tube, 2 m PVC suction tube, 2 m PVC vent tube (4/6mm)

Net Price each pump: \$1,355.40

Quantity: FIVE

Extended price for Item B pumps: \$6,777.00

See attached Data Sheet for weights, dimensions, electrical and materials of constructions and capacity details.

## AR CONTROL DETAILS

Capacity Control:

- Stroke speed control

Control Panel

- Capacity setting in ml/h, l/h, GPH
- Display with soft touch buttons and background light
- Circular menu
- Multi- language options
- Multi- positions control panel: front, left, right
- Maximum capacity (priming) button
- Green for operation indication screen
- Red for fault indication screen

Operation modes:

- Manual speed control
- Pulse control in ml/pulse
- Pulse control (1:n)
- Analog control 0/4-20 mA input
- Start / Stop key
- 100% key (deaeeration)

Functions / Options

- Dual level control
- Calibration mode
- Anti-Cavitation (reduced suction speed)
- Capacity limitation

- Counter for strokes, operating hours, and power On/Off
- Overload protections
- Error message in display
- Leak detections
- Dosing signal output
- Analog 4-20 output
- Relay output

**Signal Cables** –One cable required per pump per desired function

**Cable 1:** Input for DDA, analog pulse and external stop

- Material Number: 96609016
- Length: 16 feet
- Net Price each: \$52.00

**Cable 2:** Tank level Input for DDA pre- empty & empty

- Material Number: 96609016
- Length: 16 feet
- Net Price each: \$52.00

**Cable 3:** Output for DDA analog

- Material Number: 96632922
- Length: 16 feet
- Net Price each: \$69.00

**Cable 4:** Output for DDA- AR relay 1 and relay 2

- Material Number: 96609019
- Length: 16 feet
- Net Price each: \$52.00

- Delivery: Three to four weeks after order entry
- Delivery subject to change depending on quantities ordered and availability at the time of order
- Ship: Prepaid
- Freight included in pricing
- FOB: Lawrenceville, Georgia 30043
- Terms: Net 30, after credit approval, credit card (VISA, MasterCard), Cash in advance
- Quote is valid for 90 days from quote date.

**\*\*\*\* GRUNDFOS SHIPPING / EXPEDITING POLICY\*\*\*\***

Order expedite fee will be \$50.00 per order:

- All stock items will ship out in 2 business days.
- All items that need to be built, ship out in 3-4 business days.
- Order handling fee for “Collect” or 3<sup>rd</sup> party billing freight orders will be a minimum \$100.00.

Customer is responsible for verifying pump materials of construction with fluid pumped.

Carl Eric Johnson, Inc. requires a hard copy of the purchase order before entering orders.

If an order should result from this quotation, please refer to the quote number and e mail your purchase order to [customerservice@ceico.net](mailto:customerservice@ceico.net) or fax it to 678-377-2021.

**REPAIR FACILITIES** – Please contact the office nearest you

**HOME OFFICE**

- Carl Eric Johnson, Inc.
- 1725 Q MacLeod Drive
- Lawrenceville, Georgia 30043



**BRANCH OFFICE**

- **Carl Eric Johnson, Inc.**
- **5385 Gateway Blvd.**
- **Suite 6**
- **Lakeland, Florida 33811**
- **Phone: 863-940-4832**
- **Fax: 863-940-4834**
- **E-mail: [croberts@cejco.net](mailto:croberts@cejco.net)**

**Thank You,**

**Michael Cofer  
Inside Sales**

**Cc: (via E-Mail) Roy Leffew, David Padilla, Gordon Hamilton, Julie Chapman, Gavin Cox, Amy Cox, Mark Welsh, file**

## **Seventh Order of Business**

**7A.**

## **WORK AUTHORIZATION**

CSID WA No. 118

Globaltech No. 155102

Pursuant to the provisions contained in the "Contract for Professional Engineering Consulting and Design-Build Services on a Continuing Contract Basis " between the CORAL SPRINGS IMPROVEMENT DISTRICT, hereinafter referred to as "OWNER", and Globaltech, Inc., hereinafter referred to as "FIRM", dated July 1, 2012 (hereinafter referred to as "AGREEMENT"), this Work Authorization authorizes the FIRM to provide services under the terms and conditions set forth herein and in the AGREEMENT, which is incorporated herein by reference as though set forth in full.

The OWNER desires design-build services related to the CSID/Margate Interconnect, hereinafter referred to as the "Specific Project".

### **Section 1 – Terms**

FIRM shall be defined as an individual, corporation or contractor having a direct contract with the OWNER or with any other subcontractor in the performance of a part of the work contracted for under the terms of this Work Authorization with the OWNER.

### **Section 2 – Scope of Work**

The OWNER and the City of Margate (Margate) have agreed to construct a potable water interconnect. The interconnect will connect the OWNER's 8-inch water main in the intersection of Shadow Wood Blvd. and NW 82 Ave. (east end of Shadow Wood Blvd.) with Margate's 12-inch water main at the intersection of W. Margate Blvd. and NW 80 Ter. (west end of Margate Blvd.). The interconnect will require a directionally drilled crossing under the Sunshine Water Control District (SWCD) East Outfall Canal (EOC). The costs of this work will be split between the OWNER and Margate. The FIRM's contract will only be with the OWNER.

## **Task 1 – Engineering Services**

This task includes project management and engineering services required to complete the project.

### **Engineering and Project Management**

1. Attend preliminary scoping meetings with the OWNER to assist in site selection, preliminary design parameters and overall scope.
2. Conduct Kick-Off meeting with the OWNER and Margate to review the preliminary design parameters and overall project activity and schedule.
3. Collect pre-construction video and photographs of the construction areas and the adjacent properties.
4. Locate existing utilities within the work area.
5. Develop a site plan of the work area using a licensed surveyor.
6. Coordinate work with the OWNER and Margate. This task will include development of traffic plans/MOT for lane and road closure.
7. Meet with the OWNER to review the preliminary design parameters and overall project activity and schedule.
8. Pre-application meetings with Broward County Health Department (BCHD) and SWCD.
9. Prepare preliminary design drawings and submit five (5) sets to the OWNER and five (5) sets to Margate. Drawings will be provided in half-size (11"x17") format. Anticipated drawings include the following:
  - a. Cover/Site Location
  - b. General Mechanical/Civil Sheet
  - c. Site Plan/Piping Plan
  - d. Pipe Profile
  - e. Interconnect and Vault Details
  - f. Mechanical Details
  - g. Miscellaneous Details
  - h. Standard Details

10. Meet with the OWNER, along with Margate, at the same meeting, to discuss the preliminary design review comments.
11. Incorporate the preliminary design review comments into a final design drawing set. Submit five (5) sets of final design half-size drawings to the OWNER and Margate.
12. Prepare and submit permits to the BCHD, SWCD, Margate and the City of Coral Springs. Close out permits at the end of the project.
13. Prepare detailed construction schedule to include as a minimum; design, site mobilization, detailed construction activities, scheduled shut downs and durations, equipment/material delivery times, testing, and startup and commissioning.
14. Coordinate material and equipment purchase and subcontractors.
15. Review, administer, and track equipment submittals.
16. Schedule and conduct meetings, inspections, and testing with OWNER's staff and Margate.
17. Attend progress meetings and coordination meetings
18. Oversee construction activities enforcing the conditions of the design.
19. Conduct Substantial Completion inspection. Develop punch-list items in association with OWNER and Margate.
20. Conduct Final Completion inspection meeting and site walk through with OWNER and Margate.
21. Collect post-construction photographs and video following Final Completion inspection.
22. Prepare record drawings. Record drawings will include as-built elevations and coordinates of fittings, vault corners and manhole lids as collected by a licensed surveyor. Record drawings will be delivered to both the OWNER and Margate in AutoCAD file format, Adobe PDF, and three (3) copies of 11" X 17" half-size drawings.

## **Task 2 – Construction Services**

This task entails constructing the new interconnect. The work, in general consists of the following:

1. Implement the traffic plans/MOT's as required.
2. Install 8" x 8" tapping saddle with tapping gate valve on the 8" CSID water main in the intersection of Shadow Wood Blvd. and NW 82 Ave.
3. Install 8" C-900 PVC pipe (with cement-lined DIP fittings) from the tapping saddle to the end of the 10" HDPE canal crossing pipe. A second 8" gate valve and sample tap will be installed within 3' of the tapping saddle/gate valve for pressure testing and bacteriological clearing purposes. Install a fire hydrant on this section of piping.
4. Install 10" HDPE pipe (SDR 11), via directional drilling, under the EOC. It is anticipated that the directional drill will be approximately 385' long and the entrance/exit pits will be located in the swale on the south side of Shadow Wood Blvd about 60' east of NW 82 Ave and in the middle of the east-bound lanes of Margate Blvd. about 20' west of NW 80 Ter. Install MJ adapters at each end of the installed HDPE pipe, one MJ adapter will be butt-fused and the other will be connected using a fusion coupling.
5. Install air relief valves in manholes at each end of the canal crossing. The manhole on Shadow Wood Blvd. will be in the swale and the manhole on Margate Blvd. will be in the island in the street median.
6. Install 8" cement-lined DIP from the end of the HDPE pipe to the interconnect vaults. This will require looping back to the west since the directional drill installation will extend beyond the tie-in point.
7. Install two sets of interconnect vaults with two sets of strainers, turbine flow meters, check valves and isolation valves to allow sending water to either utility. The interconnect vault piping will be ductile iron. The flow meters will be reduced diameter and local readout only. The vaults will be installed in the swale on the south side of Margate Blvd., west of NW

80 Ter. The H-20 (traffic-rated) vaults will be equipped with 2-piece lockable aluminum hatches with spring assisted lids. The vaults will be approximately 6' x 6' x 4.5' deep with a cored hole in the bottom to allow drainage.

8. Install 8" cement-lined DIP from the west end of the interconnect vaults to the tie-in location on the 12" Margate water main. Install an 8" gate valve within 3' of the tie-in location and a fire hydrant on the 8" piping. Install 12" x 8" reducer and connect to Margate 12" water main using 12" sleeve.
9. Install water main sampling stations upstream and downstream of the interconnect vaults. The sampling stations shall be above ground (similar to Kupferle Foundry Model No. 88S), lockable and EPA approved. Four 4" diameter concrete bollards will be placed around each sampling station.
10. Disinfect the new interconnect. The OWNER will collect the samples and perform the bacteriological testing.
11. Open trenches/excavations will be filled at the end of each day. The fill for the excavations in the road on Shadow Wood Blvd. will be compacted at the end of each day. The filled excavations on Margate Blvd. will not be compacted each day, but they will be protected by barricades.
12. Disconnect the existing 8" stub on the north side of Shadow Wood Blvd., east of NW 82 Ave. Install an 8" restrained plug on the remaining water main. Fill the abandoned 8" pipe section with grout.
13. Install silt barriers to limit construction runoff into the canal during construction.
14. Repair private irrigation lines damaged during construction.
15. Install sod to match existing. The FIRM will provide up to 14 half-days of labor, to water the new sod within a three (3) week time span. Watering will be every day during the first week. The FIRM will provide two fire hydrant flow meter/back flow preventers and connect them to the nearby fire hydrants to provide the water for irrigation.



## **Assumptions**

Assumptions for the project are as follows:

- An allowance of \$20,000 is included with this project. Allowance is only to be accessed with OWNER's written approval. Unused portion of allowance to be credited back to OWNER. Allowance is in place for use at the OWNER's discretion for additional work or for unforeseen conditions.
- Working hours will be Monday through Friday from approximately 8:00 AM until 5:00 PM.
- All joints, including bell-ends, will be mechanically restrained.
- No power or telemetry will be provided.
- No easements will be required.
- The existing valves operate satisfactorily and will hold back water during construction.
- OWNER will pay the permit fees.

## **Section 3 – Location**

The services to be performed by the FIRM shall be from the intersection of Shadow Wood Blvd. and NW 82 Ave. (east end of Shadow Wood Blvd.) to the intersection of Margate Blvd. and NW 80 Ter. (west end of Margate Blvd.) crossing under the SWCD EOC.

## **Section 4 – Deliverables**

The FIRM will provide the following Deliverables to OWNER and Margate:

- Pre and post-construction video and still pictures of adjacent properties
- Preliminary and final design drawings.
- Submittals for materials/equipment.
- Construction Improvements
- Record Drawings of Improvements

### Section 5 – Time of Performance

Project will commence after execution of this Work Authorization and a Notice to Proceed is issued by OWNER. The FIRM and OWNER agree to the following schedule:

Task	Time Elapsed to Completion
Notice to Proceed (NTP)	0 Days
Preliminary Design	90 Days after NTP
Final Design	150 Days after NTP
Permitting	180 Days after NTP
Construction of Improvements	270 Days after NTP

### Section 6 – Method and Amount of Compensation

1. The FIRM shall be paid by the OWNER in accordance with the Florida's Prompt Payment Act Florida Statute 218.70-79 and in accordance with the payment method as set forth in Section 6 of the AGREEMENT. The calculations shall begin using the date the invoice was received.
2. Total job price: **\$480,456.00**. Price includes bonding and an allowance of \$20,000.00. Included in the total price is \$9,376.00 for abandoning the old 8" stub line on the north side of Shadow Wood Blvd., east of NW 82 Ave.
3. On the terms contained in the FIRM's said proposal for the doing of said work and the said award therefore, and the specifications herein specifically referred to and made a part of this contract.
4. The cost for the above scope of services is a lump sum (LS). The LS is based on the materials, methods, and assumptions presented in the scope of services and may be adjusted based on final detail design and alternative selections or omissions. The LS shall not be greater than the stated amount unless there is an approved increase in the scope of services.
5. A Budget Summary for the above LS is provided in Attachment A.

### Section 7 – Application for Progress Payment

1. Unless otherwise prescribed by law, at the end of each month, the FIRM shall submit to the OWNER for review, an Application for Progress Payment filled out and signed by the FIRM covering the Work completed as of the

- date of the Application and accompanied by such supporting documentation as is required by the AGREEMENT.
2. The Application for Progress Payment shall identify the amount of the FIRM Total Earnings to Date based upon value of original contract Work performed to date as approved by fully executed Change Orders.
  3. Payment shall be based upon percentage of work completed based upon the approved schedule of values. Retainage in the amount of 10% will be withheld on the calculated value of any work, with the exception of stored materials which may be paid at the supplier's invoiced cost. At FIRM's request, after 50% completion of the work has been achieved, the OWNER will implement a reduction in retainage to 5% of all future pay requests. If retainage is reduced, FIRM may not withhold more than 5% retainage from subcontractors or suppliers and will be required to certify compliance with F.S. 218.70 *et seq* on each subsequent pay application. Notwithstanding the foregoing, in no instance can the amount retained be less than the value of OWNER's good faith claims plus the value of the work the OWNER determines remains to be put in place or required to be performed as remedial activities. For the purposes of this section, 50% completion shall be that point in time when OWNER determines that half of the Work required by the Contract has been completed. In no event shall the Work be determined to be 50% completed before the OWNER has paid 50% of the Contract amount and 50% of the Contract time has expired. The amount of previous Pay Estimate payments shall then be subtracted to equal the Balance Due during the Pay Estimate period.
  4. When the OWNER reduces the retainage to five percent (5%), FIRM must obtain the written consent of the Surety Companies furnishing the required Public Construction Bond on consent forms provided by the OWNER. The OWNER may reinstate the retainage up to ten percent (10%) if the OWNER determines, at its discretion, that the FIRM is not making satisfactory progress toward final completion of the Work or where there is other specific cause for such withholding.

5. Partial payment may be made for the delivered cost of stored materials planned for incorporation into the Work, provided such materials meet the requirements of this Contract, the Contract Drawings, and the Specifications, and are delivered and suitably stored at the project site, or at another location acceptable to the OWNER. Such material must be stored in a secure manor acceptable to the OWNER, and in accordance with the manufacturer's recommendations.
6. The delivered cost of such stored or stockpiled materials may be included in any subsequent application for payment provided the FIRM meets the following conditions:
  - a. An applicable purchase order or supplier's invoice is provided listing the materials in detail, the cost of each item, and identifies this specific contract by name.
  - b. The materials are fully insured against loss or damage (from whatever source) or disappearance prior to incorporation into the Work.
  - c. Stored materials approved for payment by the OWNER shall not be removed from the designated storage area except for incorporation into the Work.
  - d. Evidence that the FIRM has verified quantity and quality of the materials delivered (verified packing list).
7. It is further agreed between the parties that the transfer of title and the OWNER's payment for any stored or stockpiled materials pursuant to these General Conditions, and any applicable provisions of the Supplementary General Conditions, shall in no way relieve the FIRM of the responsibility of ensuring the correctness of those materials and for furnishing and placing such materials in accordance with the requirements of this Contract, the Contract Drawings, the Technical Specifications, and any approved changes thereto.
8. The following monthly Application for Progress Payment shall be accompanied by Bills of Sale, copies of paid invoices, releases of lien,

or other documentation warranting that the FIRM has received the stored materials and equipment free and clear of all liens, charges, security interests, and encumbrances (which are hereinafter in these General Conditions referred to as "Liens") and evidence that the stored materials and equipment are covered by appropriate property insurance and other arrangements to protect the OWNER's interest therein, all of which shall be satisfactory to the OWNER.

9. The FIRM shall warrant and guarantee that title to all Work, materials, and equipment covered by an Application for Progress Payment, whether incorporated in the Work or not, will pass to the OWNER no later than the time of Final Payment free and clear of all liens or other encumbrances.
10. Progress Payments shall be made in accordance with the Local Government Prompt Payment Act. In the event any dispute with respect to any payment or pay request cannot be resolved between the FIRM and OWNER's project staff, FIRM may, in accordance with the alternative dispute resolution requirements of Florida Statute section 218.72, *et seq*, demand in writing a meeting with and review by the OWNER'S (agency) director. In the absence of the agency director, a deputy director may conduct the meeting and review. Such meeting and review shall occur within ten (10) business days of receipt by OWNER of FIRM's written demand. The OWNER's manager, shall issue a written decision on the dispute within ten (10) business days of such meeting. This decision shall be deemed the OWNER's final decision for the purposes of the Local Government Prompt Payment Act.
11. The OWNER may refuse to make payment of the full amount because claims have been made against the OWNER on account of the FIRM's performance of the Work, or because Liens have been filed in connection with the Work, or there are other items entitling the OWNER to a credit against the amount recommended, but the OWNER must give the FIRM written notice within twenty (20) business days after the date

on which the invoice is stamped as received which specifies the invoice deficiency and any action necessary to make the invoice complete and proper.

### **Section 8 – Responsibilities**

The FIRM shall, under no circumstance, look to the OWNER to provide any labor or equipment for the FIRM. The FIRM shall provide all of the labor and equipment necessary to perform the job or services contracted for at the expense of the FIRM. Property of any kind that may be on the premises, which are the site of the performance of this contract, during the performance of this Work Authorization, shall be at the sole risk of the FIRM.

**8.1** The OWNER hereby designates David McIntosh as the OWNER's representative.

**8.2** In addition to applicable provisions of Section 2 of the AGREEMENT, the OWNER will:

- Provide copies of existing drawings and equipment cut sheets if requested by FIRM
- Pay for any required permit fees

The FIRM acknowledges and understands that it is an independent contractor in its relationship with the OWNER. The FIRM hereby designates David Schuman as the FIRM's representative.

### **Section 9 – Insurance**

The FIRM shall provide certificate of insurance to the OWNER setting forth the type and amount of insurance carried by the FIRM and conforming to the minimum requirements set forth in the AGREEMENT.

### **Section 10 – Level of Service**

The OWNER shall have the right to terminate said Agreement by giving the FIRM thirty (30) days written notice if the service that is being provided is not maintained

at levels necessary to provide the required service. The OWNER will determine in its sole judgment what constitutes a satisfactory level of service.

**Section 11 – Indemnification**

The Firm shall indemnify and hold harmless the Owner and its officers and employees as set forth in Section 11 of the Agreement.

IN WITNESS WHEREOF, this Work Authorization, consisting of thirteen (13) pages and Attachment A has been caused fully executed on behalf of the FIRM by its duly authorized officer, and the OWNER has the same to be duly name and in its behalf, effective as of the date herein above written.

**CORAL SPRINGS IMPROVEMENT DISTRICT**

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
Signature of President

\_\_\_\_\_  
Printed name of Witness

Dr. Marty Shank  
Printed Name of President

\_\_\_\_\_  
Date  
Approved as to form and legality

\_\_\_\_\_  
District Counsel

**FIRM**

State of Florida  
County of Palm Beach

Globaltech, Inc  
Company

The foregoing instrument was  
acknowledged before me on this

\_\_\_ day of \_\_\_\_\_, 2016 by

\_\_\_\_\_  
Signature

\_\_\_\_\_  
who is personally known to me OR  
produced \_\_\_\_\_  
as identification.

Troy Lyn. P.E., Vice President  
Name and Title (typed or printed)

\_\_\_\_\_  
Signature of Notary

\_\_\_\_\_  
Date



# **Attachment A**

## **Budget Summary**

# ATTACHMENT A

## Engineering - CSID/Margate Interconnect

### Engineering Budget Summary

Task	Task Description	Officer	E6	E4	CADD	Adm 3	Adm 1	Total Labor	Expense/ Subconsul. Fee	Expense/ Subconsul.
		\$210.00	\$175.00	\$150.00	\$85.00	\$75.00	\$50.00			
1	Engineering - Design									
	Project Coordination and Review		24			8	4			
	Scoping Meeting w/site visit		16							
	Collect Existing Information			12						
	Survey		4	4					\$ 3,500.00	Avirom
	Locates			4					\$ 2,500.00	Inframap
	Preliminary Design		40	50	90					
	Final Design		32	32	64					
	Permitting		8	32						
	Review Meetings (2)		12	12						
	<b>Subtotal Task 2</b>	0	136	146	154	8	4	<b>\$ 59,590.00</b>		
2	SDC									
	Submittals		2	16			2			
	Site Inspections (4)		8	12						
	Clarifications		8	8						
	As Built Survey		4	4	8				\$1,750	Avirom
	Record Drawings		2	16	16		2			
	Permit Closeout		2	12						
	<b>Subtotal Task 3</b>	0	26	68	24	0	4	<b>\$ 16,990.00</b>		
	Labor Subtotal Hours	0	162	214	178	8	8			
	Labor Subtotal	\$0	\$28,350	\$32,100	\$15,130	\$600	\$400	\$76,580		
	<b>Labor Total</b>							<b>\$ 76,580.00</b>		
	Subconsultant Labor Total							\$ 7,750.00		
	Subconsultant Multiplier							1.12		
	<b>Subcontract Total</b>							<b>\$ 8,680.00</b>		
	<b>PROJECT TOTAL</b>							<b>\$ 85,260.00</b>		



# Job Estimate

Order Date: 06/14/16

**To:** Coral Springs Improvement Dist  
 10300 NW 11th Manor  
 Attn: Ken Cassel  
 Coral Springs FL 33071

**Project:** 155102  
 CSID Margate Interconnect  
 10300 NW 11th Manor  
 Attn: Ken Cassel  
 Coral Springs FL 33071

Plans Attached

Specifications Attached

**Client Job No.:**

## 1 General Conditions

Temporary Facilities	
Job Site Trailer	2,438.00
Sanitary	585.12
Job Site Office Supplies	243.80
Waste Hauling	2,925.60
General Conditions	
Submittal Labor	2,770.41
O&M	2,770.41
Progress Meeting	2,281.14
Scheduling Labor	1,846.94
Construction PM	12,005.13
Construction Superintendent	8,071.93
Purchasing & Subcontracts	1,846.94
Safety	554.08
Safety Equipment	1,219.00
Building Permit Application	2,770.41
Office Admin	1,010.52

**Item Total:** 43,339.43

## 2 Sitework

Mobilization	
Construction PM	738.78
Construction Superintendent	645.75
3 man Crew	2,501.95
Locates	1,980.00
Trenching, Backfilling, and Compaction	
ARV Manhole	6,060.30
Meter Station	9,090.45
C-900 Piping Trench	6,060.30
Irrigation Repair	609.50
Irrigation Repair Labor	1,250.97

Stone/Fill	4,876.00
Seed & Sod	3,047.50
Installation	3,030.15
Watering Sod	6,694.21
Asphalt	11,000.00
Startup Crew	1,250.97
Punch Out Crew	2,501.95

Demob	
Construction PM	738.78
Construction Superintendent	645.75
3 man Crew	2,501.95

**Item Total: 65,225.26**

**3 Concrete**

Grout & Abandon Existing Pipe	
Cast In Place Concrete	451.03
MJ Plug & Megalug	121.90
Compactor 5000-7000LB	548.55
Backhoe	1,462.80
Equipment Fuel	121.90
Seed & Sod	609.50
Cut & Plug Existing Piping	4,545.23
Grout Installation	1,515.08

Grout Manholes & Vaults	
Grout & Misc Material	1,219.00
Installation	2,501.95

4' Diameter Manhole	2,328.29
5' Diameter Manhole	6,241.28
Vault	17,434.14
Vault & Manhole Delivery	575.00

Curb & Sidewalk Repair	
Form & Materials	1,219.00
Cast In Place Concrete	2,255.15
Concrete Pump	609.50
Installation	4,545.23

**Item Total: 48,304.53**

**5 Misc Metals**

Misc Metals, Supports & Fasteners	2,438.00
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**Item Total: 2,438.00**

**9 Finishes**

Coatings	609.50
Installation	2,501.95

**Item Total: 3,111.45**

**15 Mechanical**

8"X8" Tapping Valve & Sleeve	3,128.61
Hot-Tap Installation (RangeLine)	1,100.00
Installation	4,545.23

SCH 80 PVC Pipe & Ftgs	2,438.00
------------------------	----------

DI Pipe & Fittings	20,803.67
Tapping Saddle	316.94
Flange Kits & Misc Materials	1,462.80
Fire Hydrant & Fittings	8,533.00
Isolation Valve	6,788.16
8" Check Valve	9,656.60
Water Meter & Strainer	12,122.02
ARV Assembly W/ Inflow Preventer	4,500.26
Directional Drilling	40,876.00
Pipe Supports	3,169.40
Installation	36,361.80
Bollards	3,900.80
Coatings	182.85
Sampling Station	1,548.13
SS Pipe Ftgs	609.50
Installation	3,030.07
	<b>Item Total: 165,073.84</b>
<b>18 Rental Equipment</b>	
Excavator	2,681.80
Backhoe	10,239.60
10,000lb Traversing Fork Lift	5,912.15
Compactor 5000-7000LB	1,097.10
Road Plates & Signs	6,095.00
Traffic Planning, MOT, Silt Fence	3,897.60
Pump & Hose (Dewatering)	1,219.00
Consumables	2,438.00
Equipment Fuel	609.50
	<b>Item Total: 34,189.75</b>
<b>25 Allowance</b>	
Allowance	20,000.00
	<b>Item Total: 20,000.00</b>
<b>50 Engineering/Record Drawing</b>	
Engineering	85,260.00
	<b>Item Total: 85,260.00</b>
<b>60 Bonds, Insurance &amp; Certification</b>	
Bonds & Certifications	11,818.83
Builders Risk Insurance	1,695.53
	<b>Item Total: 13,514.36</b>
	<b>Total Estimate Amount: 480,456.62</b>

**7B.**

## **WORK AUTHORIZATION**

CSID WA No. 119

Globaltech No. 165107

Pursuant to the provisions contained in the "Contract for Professional Engineering Consulting and Design-Build Services on a Continuing Contract Basis " between the CORAL SPRINGS IMPROVEMENT DISTRICT, hereinafter referred to as "OWNER", and Globaltech, Inc., hereinafter referred to as "FIRM", dated July 1, 2012 (hereinafter referred to as "AGREEMENT"), this Work Authorization authorizes the FIRM to provide services under the terms and conditions set forth herein and in the AGREEMENT, which is incorporated herein by reference as though set forth in full.

The OWNER desires design-build services related to the High Service Pump (HSP) Building Concrete Floor Repair, hereinafter referred to as the "Specific Project".

### **Section 1 – Terms**

FIRM shall be defined as an individual, corporation or contractor having a direct contract with the OWNER or with any other subcontractor in the performance of a part of the work contracted for under the terms of this Work Authorization with the OWNER.

### **Section 2 – Scope of Work**

During the replacement of HSP 5, staff noticed vibration in the floor near the pump where the floor was previously repaired with a concrete patch. Contributing to the vibration in the floor is a concrete patch previously made to the floor around HSP 5. Two concrete cores were made adjacent to HSP 5 to determine if the area under the patch was hollow. One core was taken at the interface between the original floor and concrete patch and one centered in the patch. The cores revealed that there was no rebar tying the patch and original floor together. Further,

there doesn't appear to have been any bonding agent applied to the original surface. Two layers of wire mesh were found in the patch but that is not sufficient to tie it into the original floor for a proper monolithic patch. The soil under the original slab seems to be well compacted. However, this was not the case for the patch. The soil under the patch has settled slightly and doesn't appear to be well compacted. In addition, there does not appear to be a sleeve around the HSP 5 discharge pipe. With the concrete patch not well bonded and the questionable soil beneath, this likely exerts weight on the pipe. If the pump is having any vibration these conditions will tend to make it worse since likely, no dampening is occurring.

To remedy this situation the patched is to be replaced and a new sleeve will be installed around the pump discharge pipe.

### **Task 1 – Concrete Floor Repair**

The work, in general consists of the following:

1. Coordinate material and equipment purchase.
2. Coordinate work with OWNER's staff.
3. Chip out and remove existing patch surrounding HSP 5 discharge piping.
4. Compact soil subgrade.
5. Roughen up existing concrete slab that will be connected to patch.
6. Dowel in on mat of #4 rebar apply bonding agent.
7. Install sleeve pipe around discharge pipe of HSP 5.
8. Pour concrete patch and smooth patch to match existing floor.

### **Assumptions**

Assumptions for the project are as follows:

- No permits are required for repair work.



### Section 3 – Location

The services to be performed by the FIRM shall be in the water treatment plant high service pump building.

### Section 4 – Deliverables

The FIRM will provide the following Deliverables to OWNER:

- Repair floor around HSP 5

### Section 5 – Time of Performance

Project will commence after execution of this Work Authorization and a Notice to Proceed is issued by OWNER. The FIRM and OWNER agree to the following schedule:

Task	Time Elapsed to Completion
Notice to Proceed (NTP)	0 Days
Construction of Improvements	90 Days after NTP

### Section 6 – Method and Amount of Compensation

1. The FIRM shall be paid by the OWNER in accordance with the Florida's Prompt Payment Act Florida Statute 218.70-79 and in accordance with the payment method as set forth in Section 6 of the AGREEMENT. The calculations shall begin using the date the invoice was received.
2. Total job price: **\$6,945.00.**
3. On the terms contained in the FIRM's said proposal for the doing of said work and the said award therefore, and the specifications herein specifically referred to and made a part of this contract.
4. The cost for the above scope of services is a lump sum (LS). The LS is based on the materials, methods, and assumptions presented in the scope of services and may be adjusted based on final detail design and alternative selections or omissions. The LS shall not be greater than the stated amount unless there is an approved increase in the scope of services.
5. A Budget Summary for the above LS is provided in Attachment A.

## Section 7 – Application for Progress Payment

1. Unless otherwise prescribed by law, at the end of each month, the FIRM shall submit to the OWNER for review, an Application for Progress Payment filled out and signed by the FIRM covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the AGREEMENT.
2. The Application for Progress Payment shall identify the amount of the FIRM Total Earnings to Date based upon value of original contract Work performed to date as approved by fully executed Change Orders.
3. Payment shall be based upon percentage of work completed based upon the approved schedule of values. Retainage in the amount of 10% will be withheld on the calculated value of any work, with the exception of stored materials which may be paid at the supplier's invoiced cost. At FIRM's request, after 50% completion of the work has been achieved, the OWNER will implement a reduction in retainage to 5% of all future pay requests. If retainage is reduced, FIRM may not withhold more than 5% retainage from subcontractors or suppliers and will be required to certify compliance with F.S. 218.70 *et seq* on each subsequent pay application. Notwithstanding the foregoing, in no instance can the amount retained be less than the value of OWNER's good faith claims plus the value of the work the OWNER determines remains to be put in place or required to be performed as remedial activities. For the purposes of this section, 50% completion shall be that point in time when OWNER determines that half of the Work required by the Contract has been completed. In no event shall the Work be determined to be 50% completed before the OWNER has paid 50% of the Contract amount and 50% of the Contract time has expired. The amount of previous Pay Estimate payments shall then be subtracted to equal the Balance Due during the Pay Estimate period.
4. When the OWNER reduces the retainage to five percent (5%), FIRM must obtain the written consent of the Surety Companies furnishing the required Public Construction Bond on consent forms provided by the OWNER. The

- OWNER may reinstate the retainage up to ten percent (10%) if the OWNER determines, at its discretion, that the FIRM is not making satisfactory progress toward final completion of the Work or where there is other specific cause for such withholding.
5. Partial payment may be made for the delivered cost of stored materials planned for incorporation into the Work, provided such materials meet the requirements of this Contract, the Contract Drawings, and the Specifications, and are delivered and suitably stored at the project site, or at another location acceptable to the OWNER. Such material must be stored in a secure manor acceptable to the OWNER, and in accordance with the manufacturer's recommendations.
  6. The delivered cost of such stored or stockpiled materials may be included in any subsequent application for payment provided the FIRM meets the following conditions:
    - a. An applicable purchase order or supplier's invoice is provided listing the materials in detail, the cost of each item, and identifies this specific contract by name.
    - b. The materials are fully insured against loss or damage (from whatever source) or disappearance prior to incorporation into the Work.
    - c. Stored materials approved for payment by the OWNER shall not be removed from the designated storage area except for incorporation into the Work.
    - d. Evidence that the FIRM has verified quantity and quality of the materials delivered (verified packing list).
  7. It is further agreed between the parties that the transfer of title and the OWNER's payment for any stored or stockpiled materials pursuant to these General Conditions, and any applicable provisions of the Supplementary General Conditions, shall in no way relieve the FIRM of the responsibility of ensuring the correctness of those materials and for furnishing and placing such materials in accordance with the

- requirements of this Contract, the Contract Drawings, the Technical Specifications, and any approved changes thereto.
8. The following monthly Application for Progress Payment shall be accompanied by Bills of Sale, copies of paid invoices, releases of lien, or other documentation warranting that the FIRM has received the stored materials and equipment free and clear of all liens, charges, security interests, and encumbrances (which are hereinafter in these General Conditions referred to as "Liens") and evidence that the stored materials and equipment are covered by appropriate property insurance and other arrangements to protect the OWNER's interest therein, all of which shall be satisfactory to the OWNER.
  9. The FIRM shall warrant and guarantee that title to all Work, materials, and equipment covered by an Application for Progress Payment, whether incorporated in the Work or not, will pass to the OWNER no later than the time of Final Payment free and clear of all liens or other encumbrances.
  10. Progress Payments shall be made in accordance with the Local Government Prompt Payment Act. In the event any dispute with respect to any payment or pay request cannot be resolved between the FIRM and OWNER's project staff, FIRM may, in accordance with the alternative dispute resolution requirements of Florida Statute section 218.72, *et seq*, demand in writing a meeting with and review by the OWNER'S (agency) director. In the absence of the agency director, a deputy director may conduct the meeting and review. Such meeting and review shall occur within ten (10) business days of receipt by OWNER of FIRM's written demand. The OWNER's manager, shall issue a written decision on the dispute within ten (10) business days of such meeting. This decision shall be deemed the OWNER's final decision for the purposes of the Local Government Prompt Payment Act.
  11. The OWNER may refuse to make payment of the full amount because claims have been made against the OWNER on account of the FIRM's

performance of the Work, or because Liens have been filed in connection with the Work, or there are other items entitling the OWNER to a credit against the amount recommended, but the OWNER must give the FIRM written notice within twenty (20) business days after the date on which the invoice is stamped as received which specifies the invoice deficiency and any action necessary to make the invoice complete and proper.

### **Section 8 – Responsibilities**

The FIRM shall, under no circumstance, look to the OWNER to provide any labor or equipment for the FIRM. The FIRM shall provide all of the labor and equipment necessary to perform the job or services contracted for at the expense of the FIRM. Property of any kind that may be on the premises, which are the site of the performance of this contract, during the performance of this Work Authorization, shall be at the sole risk of the FIRM.

- 8.1** The OWNER hereby designates Joe Stephens as the OWNER's representative.
- 8.2** In addition to applicable provisions of Section 2 of the AGREEMENT, the OWNER will:
  - Provide copies of existing drawings and equipment cut sheets if requested by FIRM
  - Pay for any required permit fees

The FIRM acknowledges and understands that it is an independent contractor in its relationship with the OWNER. The FIRM hereby designates Bruce Rahmani as the FIRM's representative.

### **Section 9 – Insurance**

The FIRM shall provide certificate of insurance to the OWNER setting forth the type and amount of insurance carried by the FIRM and conforming to the minimum requirements set forth in the AGREEMENT.

**Section 10 – Level of Service**

The OWNER shall have the right to terminate said Agreement by giving the FIRM thirty (30) days written notice if the service that is being provided is not maintained at levels necessary to provide the required service. The OWNER will determine in its sole judgment what constitutes a satisfactory level of service.

**Section 11 – Indemnification**

The Firm shall indemnify and hold harmless the Owner and its officers and employees as set forth in Section 11 of the Agreement.

IN WITNESS WHEREOF, this Work Authorization, consisting of nine (9) pages and Attachment A has been caused fully executed on behalf of the FIRM by its duly authorized officer, and the OWNER has the same to be duly name and in its behalf, effective as of the date herein above written.

**CORAL SPRINGS IMPROVEMENT DISTRICT**

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
Signature of President

\_\_\_\_\_  
Printed name of Witness

Dr. Marty Shank  
Printed Name of President

\_\_\_\_\_  
Date  
Approved as to form and legality

\_\_\_\_\_  
District Counsel

**FIRM**

State of Florida  
County of Palm Beach

Globaltech, Inc  
Company

The foregoing instrument was  
acknowledged before me on this

\_\_\_ day of \_\_\_\_\_, 2016 by

\_\_\_\_\_  
Signature

\_\_\_\_\_  
who is personally known to me OR  
produced \_\_\_\_\_  
as identification.

Troy Lyn. P.E., Vice President  
Name and Title (typed or printed)

\_\_\_\_\_  
Signature of Notary

\_\_\_\_\_  
Date

# **Attachment A**

## **Budget Summary**





# Job Estimate

Order Date: 08/08/16

**To:** Coral Springs Improvement Dist  
 10300 NW 11th Manor  
 Attn: Ken Cassel  
 Coral Springs FL 33071

**Project:**  
 CSID HSP 5&6 Replacement  
 10300 NW 11th Manor  
 Attn: Globaltech  
 Coral Springs FL 33071

Plans Attached

Specifications Attached

**Client Job No.:** WA-119

**101 Concrete Repair**

Concrete Cutting	609.50
Form & Materials	365.70
Cast In Place Concrete	219.42
DI Pipe Sleeve	426.65
Grout/Caulk	121.90
Stone/Fill	243.80
Misc Tools & Equipment	365.70
Installation	3,752.92
Construction PM	738.78
Office Admin	101.05

**Item Total:** 6,945.42

**Total Estimate Amount:** 6,945.42

**7C.**

**WORK AUTHORIZATION AMENDMENT 1**

CSID WA No. 116.1

GT No. 165106

Pursuant to the provisions contained in the "Contract for Professional Engineering Consulting and Design-Build Services on a Continuing Contract Basis " between the CORAL SPRINGS IMPROVEMENT DISTRICT, hereinafter referred to as "OWNER", and Globaltech, Inc., hereinafter referred to as "FIRM", dated July 1, 2012 (hereinafter referred to as "AGREEMENT"), this Work Authorization authorizes the FIRM to provide services under the terms and conditions set forth herein and in the AGREEMENT, which is incorporated herein by reference as though set forth in full.

The OWNER desires design-build services related to The Construction Improvements for the Restoration of Canal Banks at Site No. 9, hereinafter referred to as the "Specific Project".

Site 9 – Three (3) properties located on NW 84<sup>th</sup> Way (L-103 Canal)

**Section 1 – Terms**

No Change.

**Section 2 – Scope of Work**

No Change.

**Assumptions**

No Change.

**Section 3 – Location**

No Change.

**Section 4 – Deliverables**

No Change.

**Section 5 - Time of Performance**

No Change.

**Section 6 - Method and Amount of Compensation**

Section 6 has the following modifications:

- Change in total job price from \$388,066.00 to \$364,801.63, a decrease of \$23,264.37.
- Change in job price reflects the **unspent allowance of \$20,000.00.**
- Change in job price reflects credit for **unused rip rap material (73.90 tons) of \$3,264.37. \*Reference attachment A for calculation.**

**Section 7 – Application for Progress Payment**

No Change.

**Section 8 – Responsibilities**

No Change.

**Section 9 – Insurance**

No Change.

**Section 10 – Level of Service**

No Change.

**Section 11 – Indemnification**

No Change.

IN WITNESS WHEREOF, this Work Authorization, consisting of three (3) pages and Attachment A has been caused fully executed on behalf of the FIRM by its duly authorized officer, and the OWNER has the same to be duly name and in its behalf, effective as of the date herein above written.

(SEAL)

**CORAL SPRINGS IMPROVEMENT DISTRICT**

ATTEST:

\_\_\_\_\_  
President

\_\_\_\_\_  
Printed name of Witness

\_\_\_\_\_  
Printed name

\_\_\_\_\_  
Date

Approved as to form and legality

\_\_\_\_\_  
Printed name of Witness

\_\_\_\_\_  
District Counsel

\_\_\_\_\_  
Printed name of Witness

State of Florida  
County of Palm Beach

**ENGINEER**

Globaltech Inc.  
Company

The foregoing instrument was acknowledged before me on this

18<sup>th</sup> day of July, 2016 by

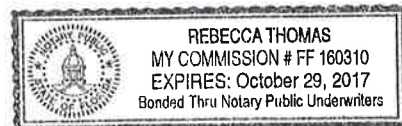
Troy L. Lyn  
who is personally known to me OR  
produced \_\_\_\_\_  
as identification.

[Signature]  
Signature

Troy L. Lyn, Vice President  
Name and title (typed or printed)

7/18/16  
Date

[Signature]  
Signature of Notary



**ATTACHMENT A**  
**WORK AUTHORIZATION AMENDMENT 1**

CSID WA No. 116.1

GT No. 165106

Calculation used for rip rap material credit:

650.00	Tons of rip rap quoted in original contract		
576.10	Tons of rip rap actually used		
<hr/>			
73.90	Tons of unused rip rap to be credited		
\$39.44	Price per ton		
<hr/>			
\$2,914.62	Total credit for unused tons		
1.12	Markup for subcontractor provided in contract		
<hr/>			
\$3,264.37	Total credit due to CSID		

## **Eighth Order of Business**

**8A.**



*Proposed*  
 Notice of Meetings  
 Coral Springs Improvement District

The Board of Supervisors of the Coral Springs Improvement District will hold their meetings for Fiscal Year 2017 in the District Offices, 10300 N. W. 11 Manor, Coral Springs, Florida at **4:00 p.m.** on the third Monday of each month unless otherwise specified below:

- October 17, 2016 \*
- November 14, 2016 (Second Monday)
- December 19, 2016
- January 23, 2017 (Fourth Monday)
- February 27, 2017 (Fourth Monday)
- March 20, 2017
- April 17, 2017
- May 15, 2017
- June 19, 2017
- July 17, 2017
- August 21, 2017
- September 18, 2017

There may be occasions when one or more Supervisors will participate by telephone. Meetings may be continued to a date and time certain, which will be announced at the meeting. Any interested person can attend the meeting at the above location and be fully informed of the discussions taking place. A scheduled meeting may be cancelled by the BOS based on the business needs of the District.

Any person requiring special accommodations at this meeting because of a disability or physical impairment should contact the District Office at (954) 753-5841 at least two calendar days prior to the meeting. If you are hearing or speech impaired, please contact the Florida Relay Service at (800) 955-8770 for aid in contacting the District Office.

Each person who decides to appeal any decision made by the Board with respect to any matter considered at the meeting is advised that person may need to ensure that a verbatim record of the proceedings is made, including the testimony and evidence upon which such appeal is to be based.

Kenneth Cassel  
 District Manager

**8B.**

**Globaltech, Inc.**  
**CSID Engineer's Report**  
**August 8, 2016**

**PROJECTS UNDER CONTRACT**

**WA #109 – WWTP Blower Study - In progress**

- Report submitted. Staff has provided comments on report and has requested additional information. Revising report.

**WA #110 – Degasifier Cleaning Pump – In closeout**

- Hoses have arrived and system is functional. Cleaning to be schedule.

**WA #113 – Canal Bank Restoration of Site 1A – In closeout**

- Complete. Closeout package submitted.

**WA #114 – Reuse Letter Report – In progress**

- Reuse Letter Report submitted to FDEP. Awaiting on FDEP to provide comments.

**WA #115 – Lime Plant Demolition – In progress**

- Began electrical demolition. Mechanical demolition beginning.

**WA #116 – Site 9 Canal Bank Restoration Construction – In closeout**

- All restoration work complete, fencing complete, will conduct final walk through with owner before submitting closeout package.

**WA #117 – Tamarac Interconnect – In progress**

- Utility locates conducted. Survey conducted. Developing design drawing.

**PROJECTS PENDING**

- WA #118 – Margate interconnect –WA approval pending.
- WA #\_\_\_ – Effluent Pump Station Electrical Improvements – Submitted to staff.
- WA #\_\_\_ - Plant lift station replacement – in preparation

**8C.**

**Coral Springs Improvement District  
Utility Billing Work Orders**

<b>2016</b>	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
<i>Customer Inquiry requiring work order</i>	28	32	25	44	49	22	29						229
<i>Mis-Reads</i>	5	3	2	0	2	2	2						16
<i>Meter Calibration Tests</i>	0	0	0	0	0	0	0						0

<b>2015</b>	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
<i>Customer Inquiry requiring work order</i>	40	27	33	33	43	43	40	37					296
<i>Mis-Reads</i>	4	2	0	0	0	1	0	3					10
<i>Meter Calibration Tests</i>	1	2	0	0	0	0	0	0					3

<b>2014</b>	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
<i>Customer Inquiry requiring work order</i>	33	43	45	60	50	73	45	52	47	43	51	52	594
<i>Mis-Reads</i>	7	5	8	5	3	9	4	2	0	6	3	3	55
<i>Meter Calibration Tests</i>	0	0	0	0	0	0	1	0	0	0	0	0	1



## August Report to the Board of Directors for the Water Plant

### Report Includes Updates through 8/5/2016

#### **Chemical tank security**

We were having some issues with our chemical suppliers', (Hawkins), delivery driver starting chemical deliveries before informing an operator to confirm everything. After several attempts at correcting this issue with his superiors were unsuccessful it was decided to take matters into our own hands. Staff has locked all of our chemical tanks access to prevent any incorrect deliveries of chemicals into the wrong tanks. Only the operators have keys to them. You may remember when the City of Coral Springs made the news with helicopters flying over their plant and hazmat teams being called out because a delivery of Sodium Hypochlorite (Bleach) was made into their fluoride tank. <http://www.local10.com/news/10-taken-to-hospital-after-chemical-spill-at-water-plant> I have made such a big deal about this to Hawkins' regional manager that he moved a delivery driver here from California who will be making deliveries to our plant from now on.

#### **Elimination of the potential for chain of custody and sample label errors**

We have recently typed up all of the addresses into the chain of custodies for sampling and verified that they are 100% accurate. We are working with the lab to see if they can have them printed up for us with the addresses already on the forms. The same goes for the labels that we place on each of the sample bottles. Many of the errors, including the THM address errors experienced in the third quarter of 2015, would have been avoided if this practice was in place then. As we all know that error constituted fines and public notice.

#### **Train vessel saddle replacements**

Our operators noticed that some of the rubber saddles that support the 50 vessels on each of our three trains have begun degrading. We ordered 20 replacements and the operators have replaced the 14 they found to be in questionable condition.

#### **High service pump check valve adjustments**

When Paul Gandy (Globaltech) was out looking at high service pumps 5 and 6 he noticed the check valves "slamming" closed on several pumps when switching from one to another for the testing he was conducting. He recommended we move the weights out further on the check valve arms which he felt would eliminate this issue. A work order was created and maintenance has done just that. This seems to have solved a long standing issue at least thus far.

## **Lime plant demolition**

The latest update on this project according to Dave Schuman is that he will have a crew here the week of 8/8 to begin demo. We will be meeting soon to begin discussing phases of the project which will require the RO plant to be shut down temporarily. We will ensure that NO phase causes a concern for continuity of service to the residents.

## **Degasifier cleaning project**

Staff has tested the new pump and associated piping and hoses and we have resolved some minor leaks that were identified. We have sent an email to Globaltech to begin discussing startup and conducting our first cleaning.

## **Superchlorination**

Our annual super chlorination event ended on July 29<sup>th</sup> as scheduled. It was a complete success as expected and we received few concerns from residents throughout the event.

## **4-Log virus inactivation**

The Health Department has responded and they only requested one minor edit to the original S.O.P. staff submitted. We have made the adjustment and resubmitted it for final approval. We have installed a few new alarm features in the SCADA system to alert operators if any condition falls outside of the acceptable limits. These include a countdown timer to show them how much time they have left to correct the issue to prevent public notice. Once the SOP is approved we will begin “practicing” the new 4-log conditions to ensure staff is ready to comply with these new rules and requirements. This will also give staff an opportunity to make any final adjustments to equipment etc.. We will then present the Health Department with an official start date and from that date on we will be a fully approved 4-log virus inactivation facility.

## **Repair to lift station line**

While Rodger was digging a trench to locate and repair a sleeved Fluoride transfer hose he came across something he recognized was an issue. He found where a contractor, most likely an electrician, must have broken a pvc line between two lift stations on site and attempted a repair using conduit which of course is incorrect and has been leaking ever since. The leak was small so it never showed above grade. Instead of just covering it up and ignoring it as if he hadn't seen it he made the necessary repairs and informed us of the issue after the repairs were made. An excellent job on his part. Photos of the before and after are attached.

Pre repair



Post repair





Coral Springs Improvement District  
Wastewater Department Report  
August 2016 Board Meeting

## Ongoing Projects

Globaltech has notified the District that they are progressing with the following approved work authorizations (WA):

- WA # 109 - Wastewater Treatment Plant Blower Study. Staff has asked GlobalTech to look at some additional alternatives before finalizing their report. Expected date for final report to be sent to staff is the end of August 2016.
- WA # 114 – Reuse Feasibility Report. The Reuse Feasibility letter was mailed off to Florida Department of Environmental Protection (FDEP) on June 27, 2016. Waiting for comments back from FDEP.

## Operations

Blower 2 is out of service for repair. Parts have been ordered and once in, Delta Controls will install. Expected date to return to service is the week of August 8<sup>th</sup>, 2016.

## Coral Springs improvement District

### Drainage Report

August 15, 2016 Board Meeting

#### Work Authorizations

- Site# 9 WA#116 Fences have been re-installed behind homes along the work area. Some leveling of sodded areas is required for safety reasons. Awaiting release of liens from suppliers and fence permit close out from the City.

#### Aquatic Weed Control

- We are on schedule with monthly herbicide applications. We are continuing with an updated schedule for Lake Coral Springs. We have achieved approx. a 70% reduction in perimeter eelgrass that was present.
- An estimated budgetary cost report for Lake Coral Springs is expected to be completed for presentation to the Board during the September 19<sup>th</sup> Board meeting.

#### Flood Control

- The canal levels have been maintained near 6.8' NGVD.
- So far this month we ran pumps in the West basin for about 6 hrs.

#### Canal Bank Inspections

- The inspection of the canal banks is on-going with the West basin. Once completed a presentation will be made to the Board regarding concerns/issues within each basin. Presentation is expected to be made by the end of September

Coral Springs Improvement District's Water Distribution and Wastewater Collection

Department Report

8-15-16 board Meeting

- \* There were **54** water breaks in the month of June, up from last month's figure of 41 and 33 for April.
  
- \* The department delivered a hot spot to the board last month. I am currently calculating the total number of water services for those phases of subdivisions to price their cost of replacement, schedule for the investment on returns and potential work load reduction. I may have those figures by next board meeting
  
- \* Our Annual Cross Connection Control Survey is nearly complete with less than a handful to do for all Residential and commercial accounts. There are a high percentage of customers who need to comply With the current regulations.
  
- \* The Department is looking at industry and other municipalities for methods regarding water line Replacement. I am trying to find a "line pulling demonstration". Acoustic leak detection has not had Success in our application.
  
- \* The department is currently pricing Pressure sensors for the purpose of monitoring force main pressures In the collections systems force main for the purpose of determining pump efficiency. These sensors Would log data at several lift stations.

# **FINANCIALS**

# **Coral Springs Improvement District**

Financial Reporting  
for  
JULY 2016

August 15, 2016  
Board of Supervisors Meeting

**Coral Springs Improvement District**  
**Balance Sheet**  
**All Fund Types and Account Groups**

July 31, 2016

Description	General Fund	Water & Sewer Fund	General Fixed Assets	Totals
<b>ASSETS</b>				
Cash & Cash Equivalents:				
Checking Accounts	\$ 1,198,719	\$ 11,617,280	\$ -	\$ 12,815,999
Cash on Hand	-	10,500	-	10,500
Money Market Accounts	4,092,297	7,148,872	-	11,241,169
State Board of Admin. (Net)	-	-	-	-
Certificates of Deposit	260,928	257,486	-	518,414
Restricted Cash	-	-	-	-
Restricted Investments	-	4,637,629	-	4,637,629
Accounts Receivable	-	567,913	-	567,913
Unbilled Utility Revenues Receivable	-	767,700	-	767,700
Accrued Interest Receivable	3,621	4,675	-	8,296
Due from Other Funds	-	-	-	-
Due from Other District-Trash Bond	-	2,500	-	2,500
Prepaid Expenses	4,344	58,789	-	63,133
Land	-	361,739	553,200	914,939
Easements	-	394,998	-	394,998
Meters in Field (Net)	-	1,615,218	-	1,615,218
Machinery & Equipment (Net)	-	427,260	671,792	1,099,052
Imp. Other than Bldgs (Net)	-	56,977,721	6,766,470	63,744,191
Buildings (Net)	-	206,663	-	206,663
Construction in Progress	-	1,219,532	4,353,577	5,573,109
<b>Total Assets</b>	<b>\$ 5,559,909</b>	<b>\$ 86,276,475</b>	<b>\$ 12,345,039</b>	<b>\$ 104,181,423</b>

**Coral Springs Improvement District**  
**Balance Sheet**  
**All Fund Types and Account Groups**

July 31, 2016

Description	General Fund	Water & Sewer Fund	General Fixed Assets	Totals
<b><u>LIABILITIES</u></b>				
Accounts Payable	\$ 462,166	\$ 73,803	\$ -	\$ 535,969
Contracts Payable	-	-	-	-
Retainage Payable	105,219	-	-	105,219
Accrued Int Payable-2007 Series	-	322,662	-	322,662
Accrued R & R Reserve	-	-	-	-
Accrued Wages Payable	11,762	77,654	-	89,416
Accrued Vac/Sick Time Payable	-	210,029	-	210,029
Pension Payable	-	-	-	-
Utility Tax Payable	-	52,545	-	52,545
Payroll Taxes Payable	-	-	-	-
Deposits	20,000	567,785	-	587,785
Due to Other Funds	-	-	-	-
Net OPEB Obligation	-	211,948	-	211,948
Bonds Payable	-	40,960,000	-	40,960,000
Bond Discount-2007 Series	-	(660,247)	-	(660,247)
<b>Total Liabilities</b>	<b>599,147</b>	<b>41,816,179</b>	<b>-</b>	<b>42,415,326</b>
<b><u>FUND BALANCE / NET POSITION</u></b>				
Fund Balance:				
Unspendable	4,344	-	-	4,344
Assigned	4,850,000	-	-	4,850,000
Unassigned	106,418	-	-	106,418
Net Position	-	44,460,296	-	44,460,296
Investment in GFA	-	-	12,345,039	12,345,039
<b>Total Fund Balance / Net Assets</b>	<b>4,960,762</b>	<b>44,460,296</b>	<b>12,345,039</b>	<b>61,766,097</b>
<b>Total Liabilities &amp; Fund Balance / Net Assets</b>	<b>\$ 5,559,909</b>	<b>\$ 86,276,475</b>	<b>\$ 12,345,039</b>	<b>\$ 104,181,423</b>

**Coral Springs Improvement District**  
**General Fund**  
Statement of Revenues, Expenditures and Change in Fund Balance  
For the Period Ending July 31, 2016

	Adopted Budget FYE 2016	Prorated Budget Thru 07-31-16	Actual 10 Months Ending 07-31-16	Variance Favorable (Unfavorable)
<b>REVENUES:</b>				
Assessments (Net)	\$ 1,781,758	\$ 1,781,758	\$ 1,813,482	\$ 31,724
Permit Review Fees	1,000	1,000	5,450	4,450
Interest Income	2,400	2,400	15,714	13,314
Shared Personnel Rev.	31,019	25,849	25,849	-
Miscellaneous Revenue	-	-	50,414	50,414
Carry Forward Assigned Funds	1,900,000	-	-	-
<b>Total Revenues</b>	<b>3,716,177</b>	<b>1,811,007</b>	<b>1,910,909</b>	<b>99,902</b>

**EXPENDITURES:****Administrative**

Supervisor Fees	7,200	6,000	6,000	-
Salaries/Wages	124,846	105,639	115,423	(9,784)
Special Pay	227	227	209	18
FICA Taxes	10,103	8,549	9,303	(754)
Pension Expense	12,484	10,563	12,716	(2,153)
Health Insurance	30,276	25,230	13,840	11,390
Workers Comp. Ins.	355	296	167	129
Engineering Fees	30,000	25,000	32,900	(7,900)
Attorney Fees	24,000	20,000	53,770	(33,770)
Special Consulting Services	20,000	16,667	14,906	1,761
Annual Audit	7,622	7,622	7,600	22
Actuarial Computation-OPEB	435	435	435	-
Management Fees	52,450	43,708	43,708	-
Communications-Telephone	2,961	2,468	2,845	(377)
Postage	636	530	554	(24)
Printing & Binding	2,520	2,100	2,100	-
Building Rent	12,000	10,000	10,000	-
Insurance	1,000	833	868	(35)
Legal Advertising	2,000	404	404	-
Contingencies/Other Current Charges	-	-	-	-
Fire & EMS Assessments	10,880	-	-	-
Technology Expense	15,000	12,500	12,531	(31)
Digital Record Management	5,000	5,000	7,337	(2,337)
Office Supplies	6,000	5,000	6,127	(1,127)
Dues, Subscriptions	7,500	830	830	-
Promotional Expenses	3,600	3,465	3,465	-
Capital Outlay	-	-	-	-
<b>Total Administrative</b>	<b>389,095</b>	<b>313,066</b>	<b>358,038</b>	<b>(44,972)</b>



**Coral Springs Improvement District**  
**General Fund**  
Statement of Revenues, Expenditures and Change in Fund Balance  
For the Period Ending July 31, 2016

	Adopted Budget FYE 2016	Prorated Budget Thru 07-31-16	Actual 10 Months Ending 07-31-16	Variance Favorable (Unfavorable)
<b>Field Operations</b>				
Salaries and Wages	320,927	271,554	266,422	5,132
Special Pay	1,246	1,246	1,245	1
FICA Taxes	24,551	20,774	20,106	668
Pension Expense	32,093	27,156	29,313	(2,157)
Health Insurance	78,486	65,405	83,553	(18,148)
Worker's Comp. Insurance	17,778	14,815	8,458	6,357
Water Quality Testing	4,700	3,917	1,861	2,056
Communications-Radios/Cellphones	1,380	1,150	954	196
Electric Expense	1,224	1,020	1,104	(84)
Rentals & Leases	-	-	-	-
Insurance	28,446	23,705	12,226	11,479
R & M - General	63,953	53,294	17,925	35,369
R & M - Culvert Inspection & Cleaning	50,000	35,000	35,000	-
R & M - Canal Dredging & Maintenance	25,000	-	-	-
R & M - Vegetation Management	20,000	16,667	4,875	11,792
Operating Supplies - General	25,525	21,271	14,556	6,715
Operating Supplies - Chemicals	89,396	74,497	81,823	(7,326)
Operating Supplies - Uniforms	1,697	1,414	1,268	146
Operating Supplies - Motor Fuels	34,210	28,508	10,297	18,211
Dues, Licenses	5,170	1,278	1,278	-
Capital Outlay-Equipment	1,300	-	-	-
Capital Improvements	1,900,000	1,727,487	1,727,487	-
<b>Total Field</b>	<b>2,727,082</b>	<b>2,390,158</b>	<b>2,319,751</b>	<b>70,407</b>
<b>Total Expenditures</b>	<b>3,116,177</b>	<b>2,703,224</b>	<b>2,677,789</b>	<b>25,435</b>
<b>Reserves:</b>				
Reserved for 1st Qtr Operating	350,000	262,500	-	262,500
Reserved for Projects & Emergencies	250,000	187,500	-	187,500
<b>Total Reserves</b>	<b>600,000</b>	<b>450,000</b>	<b>-</b>	<b>450,000</b>
<b>Total Expenditures &amp; Reserves</b>	<b>3,716,177</b>	<b>3,153,224</b>	<b>2,677,789</b>	<b>475,435</b>
<b>Excess Revenues Over (Under)</b>				
<b>Expenditures &amp; Reserves</b>	<b>\$ -</b>	<b>\$ (1,342,217)</b>	<b>(766,880)</b>	<b>\$ 575,337</b>
<b>Fund Balance Beginning</b>				<b>5,727,642</b>
<b>Fund Balance Ending</b>				<b>\$ 4,960,762</b>

**Coral Springs Improvement District**  
**Water and Sewer Fund**  
**Statement of Revenues, Expenses and Change in Net Assets**

For the Period Ending July 31, 2016

	Adopted Budget FYE 2016	Prorated Budget Thru 07-31-16	Actual 10 Months Ending 07-31-16	Variance Favorable (Unfavorable)
<b>REVENUES:</b>				
Water Revenue	\$ 6,467,008	\$ 5,389,173	\$ 5,418,561	\$ 29,388
Sewer Revenue	5,852,977	4,877,481	4,893,125	15,644
Standby Revenue	1,872	1,560	2,093	533
Processing Fees	12,000	10,000	18,620	8,620
Lien Information Fees	9,000	7,500	18,770	11,270
Delinquent Fees	45,000	37,500	41,860	4,360
Contract Utility Billing Services	55,979	46,649	46,649	-
Contract HR & Payroll Services	11,807	9,839	9,839	-
Facility Connection Fees	-	-	1,200	1,200
Meter Fees	1,000	833	325	(508)
Line Connection Fees	-	-	5,650	5,650
Interest Income-2007 Bonds	-	-	9,501	9,501
Interest Income-Other	-	-	35,501	35,501
Rental Income	58,951	49,126	49,126	-
Technology Sharing Revenue	15,000	12,500	12,500	-
Misc. Revenues	12,000	10,000	67,214	57,214
Unrealized Gain (Loss)-SBA	-	-	-	-
Transfer from R & R Fund	313,800	74,052	74,052	-
Carryforward Prior Yr Fund Balance	-	-	-	-
<b>Total Revenues</b>	<b>12,856,394</b>	<b>10,526,213</b>	<b>10,704,586</b>	<b>178,373</b>

**Coral Springs Improvement District**  
**Water and Sewer Fund**  
**Statement of Revenues, Expenses and Change in Net Assets**

For the Period Ending July 31, 2016

	Adopted Budget FYE 2016	Prorated Budget Thru 07-31-16	Actual 10 Months Ending 07-31-16	Variance Favorable (Unfavorable)
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**EXPENSES:**

**Administrative**

Salaries/Wages/Overtime	836,228	707,578	696,416	11,162
Special Pay	1,992	1,992	2,028	(36)
FICA Taxes	63,972	54,130	51,664	2,466
Pension Expense	91,985	77,833	76,438	1,395
Health Insurance	150,132	125,110	114,728	10,382
Workers Comp. Insurance	5,478	4,565	1,028	3,537
Unemployment Comp	1,000	1,000	3,850	(2,850)
Engineering Fees	24,000	20,000	17,848	2,152
Trustee Fees and Other Exp.	14,911	600	600	-
Attorney Fees	12,000	9,000	8,913	87
Special Council Services	25,000	18,750	16,391	2,359
Travel & Per Diem	4,500	3,750	2,168	1,582
Annual Audit	11,400	11,400	11,400	-
Actuarial Computation-OPEB	3,315	3,315	3,315	-
Management Fees	78,676	65,563	65,563	-
Telephone	8,400	7,000	7,412	(412)
Postage	42,000	31,500	27,005	4,495
Printing & Binding	17,575	14,646	16,102	(1,456)
Electric	12,320	10,267	8,888	1,379
Rentals and Leases	6,000	5,000	4,359	641
Insurance	13,654	11,378	11,378	-
Repair and Maintenance	14,850	12,375	5,931	6,444
Legal Advertising	3,000	1,647	1,647	-
Other Current Charges	19,500	16,250	16,449	(199)
Credit Card Merchant Fees	53,400	44,500	47,715	(3,215)
Technology Expense	30,000	25,000	30,628	(5,628)
Digital Record Management	5,000	-	-	-
Toilet Rebate	14,850	12,375	9,603	2,772
Office Supplies	9,900	8,250	3,893	4,357
Dues, Memberships, Etc	10,000	2,335	2,335	-
Promotional Expenses	14,000	14,000	14,122	(122)
Capital Outlay	-	-	-	-

<b>Total Administrative</b>	1,599,038	1,321,109	1,279,817	41,292
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**Coral Springs Improvement District**  
**Water and Sewer Fund**  
**Statement of Revenues, Expenses and Change in Net Assets**

For the Period Ending July 31, 2016

	Adopted Budget FYE 2016	Prorated Budget Thru 07-31-16	Actual 10 Months Ending 07-31-16	Variance Favorable (Unfavorable)
<b><u>Plant Operations</u></b>				
Salaries and Wages	1,610,893	1,363,063	1,219,361	143,702
Special Pay	3,082	3,082	2,924	158
FICA Taxes	123,236	104,277	92,705	11,572
Pension Expense	177,197	149,936	128,711	21,225
Health Insurance	296,973	247,478	211,159	36,319
Worker's Comp. Insurance	56,220	46,850	34,281	12,569
Water Quality Testing	113,229	94,358	61,791	32,567
Telephone	7,572	6,310	6,273	37
Electric Expense	656,379	546,983	511,987	34,996
Rentals & Leases	11,700	9,750	2,774	6,976
Insurance	151,774	126,478	128,273	(1,795)
Repair & Maint-General	377,261	314,384	350,043	(35,659)
Repair & Maint-Filters for Nano Plant	36,630	30,525	22,822	7,703
Sludge Management-Sewer	188,520	157,100	128,064	29,036
Advertisement for Employment	6,000	1,500	1,500	-
Office Supplies	4,500	3,750	1,005	2,745
Operating Supplies-General	43,200	36,000	44,199	(8,199)
Operating Supplies-Chemicals	452,373	339,280	259,863	79,417
Operating Supplies-Uniforms	8,290	6,908	6,050	858
Operating Supplies-Motor Fuels	179,505	149,588	19,290	130,298
Dues, Licenses, Etc.-Other	32,987	17,818	17,818	-
Capital Outlay	422,876	34,888	34,888	-
Renewal & Replacement Expense	313,800	74,052	74,052	-
<b>Total Plant Operations</b>	<b>5,274,197</b>	<b>3,864,358</b>	<b>3,359,833</b>	<b>504,525</b>

**Coral Springs Improvement District**  
**Water and Sewer Fund**  
**Statement of Revenues, Expenses and Change in Net Assets**

For the Period Ending July 31, 2016

	Adopted Budget FYE 2016	Prorated Budget Thru 07-31-16	Actual 10 Months Ending 07-31-16	Variance Favorable (Unfavorable)
<b><u>Field Operations</u></b>				
Salaries/ Wages/Overtime	751,892	636,216	576,510	59,706
Special Pay	1,893	1,893	1,787	106
FICA Taxes	57,522	48,672	43,871	4,801
Pension Expense	82,710	69,985	63,232	6,753
Health Insurance	217,652	181,377	139,761	41,616
Worker's Comp. Insurance	35,039	29,199	12,734	16,465
Water Quality Testing	-	-	240	(240)
Naturescape Irrigation Serv	4,542	4,542	4,410	132
Telephone	9,900	8,250	8,793	(543)
Electric	110,337	91,948	97,339	(5,391)
Rent Expense	13,500	11,250	10,232	1,018
Rent Expense-SCADA	56,040	46,700	46,700	-
Insurance	18,920	15,767	15,882	(115)
Repair and Mainteneace	144,262	120,218	156,031	(35,813)
Meters-Replacement Program	8,031	1,186	1,186	-
Meters-New Connections	-	-	-	-
Meters-Supplies	3,632	3,632	3,913	(281)
Advertising-Employment	-	-	940	(940)
Office Supplies	2,100	1,750	1,016	734
Operating Supplies-General	30,500	25,417	30,447	(5,030)
Operating Supplies-Uniforms	5,810	4,842	3,754	1,088
Operating Supplies-Motor Fuels	25,975	21,646	9,740	11,906
Dues, Licenses, Etc	1,336	1,336	4,734	(3,398)
Capital Outlay	985,000	731,991	731,991	-
Renewal & Replacement	-	-	-	-
<b>Total Field Operations</b>	<b>2,566,593</b>	<b>2,057,817</b>	<b>1,965,243</b>	<b>92,574</b>
<b>Total Operating Expenses</b>	<b>9,439,828</b>	<b>7,243,284</b>	<b>6,604,893</b>	<b>638,391</b>
<b>Reserves:</b>				
Required Reserve for R & R	-	-	-	-
<b>Total Operating Exp &amp; Reserve</b>	<b>9,439,828</b>	<b>7,243,284</b>	<b>6,604,893</b>	<b>638,391</b>
<b>Available for Debt Service</b>	<b>3,416,566</b>	<b>3,282,929</b>	<b>4,099,693</b>	<b>816,764</b>
<b><u>Debt Service</u></b>				
<b><u>Principal</u></b>				
2007 Series	1,170,000	975,000	975,000	-
<b><u>Interest</u></b>				
2007 Series	1,935,969	1,613,308	1,613,308	-
<b>Total Debt Service</b>	<b>3,105,969</b>	<b>2,588,308</b>	<b>2,588,308</b>	<b>-</b>
<b>Excess Revenues (Expenses)</b>	<b>\$ 310,597</b>	<b>\$ 694,621</b>	<b>\$ 1,511,385</b>	<b>\$ 816,764</b>
<b>Net Assets Beginning</b>				<b>42,948,911</b>
<b>Net Assets Ending</b>				<b>\$ 44,460,296</b>

**Coral Springs Improvement District**  
**Water and Sewer Fund**  
**Statement of Revenues, Expenses and Change in Net Assets**

For the Period Ending July 31, 2016

	<b>Adopted Budget FYE 2016</b>	<b>Prorated Budget Thru 07-31-16</b>	<b>Actual 10 Months Ending 07-31-16</b>	<b>Variance Favorable (Unfavorable)</b>
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<b>Summary of Operations and Debt Service Coverage</b>				
Revenues			<u>10,704,586</u>	
Operating Expenditures:				
Operating Expenditures-Admin			1,279,817	
Operating Expenditures-Plant			3,359,833	
Operating Expenditures-Field			<u>1,965,243</u>	
Total Operating Expenditures			<u>6,604,893</u>	
Required Reserve for R&R			-	
Total Operating Exp & Reserves			<u>6,604,893</u>	
Available for Debt Service			4,099,693	Debt Service Coverage 1.58
Less: Debt Service			<u>2,588,308</u>	
Excess Revenues (Exp)			<u>1,511,385</u>	

## CORAL SPRINGS IMPROVEMENT DISTRICT ASSESSMENT COLLECTIONS FOR FYE 2016

July 31, 2016

Date	Assessments Collected (net of all Commissions & Fees)
10-31-2015	\$ -
11-09-2015	175
11-20-2015	165,965
12-08-2015	1,186,641
12-11-2015	107,747
12-30-2015	85,247
01-15-2016	48,739
02-12-2016	50,698
03-15-2016	38,061
04-15-2016	72,544
05-13-2016	16,816
06-15-2016	12,017
07-15-2016	28,832
<hr/>	
<b>Totals</b>	<b>\$ 1,813,482</b>

## Coral Springs Improvement District

Check Registers

July 2016

<u>Fund</u>	<u>Check Date</u>	<u>Check No.</u>	<u>Amount</u>
General Fund	07-01-2016 thru 07-31-2016	4132 - 4153	\$ 112,281.26

<b>Total</b>			<b>\$ 112,281.26</b>
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Water and Sewer	07-01-2016 thru 07-31-2016	21225 - 21402	\$ 551,399.58
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<b>Total</b>			<b>\$ 551,399.58</b>
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CHECK DATE	VEND#	INVOICE DATE	NUMBER	EXPENSED TO... YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/01/16	00137				PUBLIC RECORDS REQUEST CITY OF CORAL SPRINGS			23.32	004132
7/08/16	00233				UNIT=003 OIL CHANGE CYPRESS MOBIL			35.00	004133
7/08/16	00105				TRIPLOID GRASS CARP FLORIDA FISH FARM			12,000.00	004134
7/08/16	00023				12000 SW 1ST ST PS 2 FLORIDA POWER & LIGHT CO.			132.08	004135
7/08/16	00037				121 NW 93RD TER PS 1 SEVERN TRENT ENVIRONMENTAL SERVICES			4,470.85	004136
7/08/16	00284				MANAGEMENT FEES 06/16 COPIES 06/16 POSTAGE 06/16 SUNSHINE 50% PINETREE 25% CSID-GF 25% WASTE PRO-PEMBROKE PINES			999.47	004137
7/08/16	00230				TRIBUNE 2.5G WINFIELD SOLUTIONS, LLC			3,950.00	004138
7/19/16	01140				TRASH BOND-2014-1 BOINIS ASSOCIATES LTD.			2,500.00	004139
7/19/16	00279				TREE REMOVAL/99TH TER JLS TREE SERVICE			3,475.00	004140
7/19/16	00248				LEGAL SERVICES 06/2016 LEWIS, LONGMAN & WALKER, P.A.			5,595.49	004141
7/19/16	01139				PARK PROPERTY GRAY ROBINSON			10,031.16	004142
7/29/16	00219				CUTRINE CROP PRODUCTION SERVICES			1,872.50	004143
7/29/16	99999				VOID CHECK *****INVALID VENDOR NUMBER*****			.00	004144
7/29/16	00051				UNIFORM RENTAL 06/16 GASOLINE 06/16 NEXTEL 06/16 SAM'S CLUB-FIELD SUP06/16 OFFICE SUPPLIES 06/16 FASD-CONF-CREDIT 1 BOARD HERUTAGE-CRYSTAL-USED OIL AMEX-AMAZON-RX DISPOSAL ANALITICA CONSULTING TELEPHONE 07/16 POSTAGE 07/16 PRINTING & BINDING 07/16 RENT 07/16 TECHNOLOGY SHARING 07/16 OFFICE SUPPLIES 07/16 HEALTH INS-FIELD 07/16 UNIFORM RENTAL 07/16 NEXTEL 07/16 CORAL SPRINGS IMPROVEMENT DIST WS			14,015.87	004145
7/29/16	00080				AMT DUE WS 07/27/16 CORAL SPRINGS IMPROVEMENT DIST WS			33,980.67	004146
7/29/16	01137				CANAL BANK MOWING DESIGN FOR LIVING			300.00	004147

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CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO NUMBER YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/29/16	00146			HYDROTHOL 191 INLET	HELENA CHEMICAL CO.		8,891.00	004148
7/29/16	00033			SPRAY PUMP FITTINGS REPAINT STORAGE CABINETS	HOME DEPOT		103.26	004149
7/29/16	00158			OUTBOARD REPAIRS/UNIT 3 DISCOUNT	POMPANO BEACH MARINE CENTER, INC		667.82	004150
7/29/16	00229			WEEDESTROY AM40 AQUANEAT	RED RIVER SPECIALTIES, INC.		776.40	004151
7/29/16	00037			MANAGEMENT FEES 07/16 COPIES 07/16 POSTAGE 07/16	SEVERN TRENT ENVIRONMENTAL SERVICES		4,511.37	004152
7/29/16	00230			TRIBUNE	WINFIELD SOLUTIONS, LLC		3,950.00	004153
					TOTAL FOR BANK G		112,281.26	
					TOTAL FOR REGISTER		112,281.26	

CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO NUMBER YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/06/16	99999			VOID CHECK	*****INVALID VENDOR NUMBER*****		.00	021225
7/06/16	01130			MICHAEL'S-AWARDS BRAESIDE-FRAMES-BLK 10 LUNCH-FIELD SUPERMEDIA-TONERS AFLAC-LUNCH 4 BEST BUY-LAPTOPS-2 ADM NORTON-ANTIVIRUS-ANA VIV FLEETIO-MONTHLY FEE FRANCO-POSTAGE REFILL UPLAND SOFTWARE LUNCH-FIELD ALLIED-ADMIN..AED PADS ALLIED-WATER..AED PADS ALLIED-WW..AED PADS AMAZON-WW..TV ANTENNA CREDIT PENDING-FASD AMAZON-RX DIS BAGS	AMERICAN EXPRESS		3,369.98	021226
7/06/16	01543			WATER-CONSULT/TRAIN WW-CONSULT/TRAIN FIELD-CONSULT/TRAIN DRAINAGE-CONSULT/TRAIN	ANALITICA CONSULTING GROUP LLC		3,900.00	021227
7/06/16	00694			TECH SUPP 05/26-06/25/16	ASSOCIATED SYSTEMS, INC.		1,185.00	021228
7/06/16	01502			WINDSHIELD TAGS	AT & I SYSTEMS		252.00	021229
7/06/16	00789			SERV ROLLERS/CLEAN HP4200	BROWARD BUSINESS EQUIPMENT		185.00	021230
7/06/16	00857			DEP/STORAGE TANK RENEWAL DEP/STORAGE TANK RENEWAL DEP/STORAGE TANK RENEWAL	CAPITAL ONE		350.00	021231
7/06/16	00352			UTILITY TAXES 06/16	CITY OF CORAL SPRINGS		53,909.94	021232
7/06/16	00122			ADDL DENTAL ADMIN 07/16	COMPBENEFITS COMPANY		30.04	021233
7/06/16	01267			NEW TIRES/DUMP TRAILER	CYPRESS MOBIL		246.00	021234
7/06/16	00017			OVERNIGHT SERVICE	FEDEX		30.04	021235
7/06/16	00018			GENERAL SUPPLIES	FERGUSON ENTERPRISES, INC.		2,204.40	021236
7/06/16	00056			CBOD & TSS 6060430 RO CONCEN 6060431 FLUORIDE 6060432 REPEAT SAMPLES 6060433 REPEAT SAMPLES 6060434 PLATE COUNT 6060465 BACTI WELLS 1-11 6060466 CBOD & TSS 6060467				

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CHECK DATE	VEND#	INVOICE DATE	NUMBER	EXPENSED TO... YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK... AMOUNT	...	#
7/06/16	01535			CBOD & TSS 6060535 DISINFECTION 6060536 CBOD & TSS 6060557 CBOD & TSS 6060579	FLORIDA SPECTRUM ENV. SERVICES, INC		1,156.00	021237		
7/06/16	00033			AMMONIA	HAWKINS, INC.		1,295.00	021238		
7/06/16	00346			CHEMICAL TANKS LOCKS RETURNED PADLOCK PADLOCKS WATER FOUNTAIN FILTER PAINT SUPPLIES	HOME DEPOT		223.73	021239		
7/06/16	01093			DEGAS CLEANING PROJ. DEGAS CLEANING PROJ.	INDUSTRIAL HOSE & HYDRAULICS, INC.		.00	021240		
7/06/16	01506			FERTILIZED FICUS MAINTAIN CANAL BANK	JLS LANDSCAPE SERVICES, INC.		975.00	021241		
7/06/16	01345			STATOR 20HP REWIND/LS STATOR 20HP REWIND/LS STATOR 20HP REWIND/LS STATOR REWIND/LS STATOR 10HP REWIND/LS	KAMAN INDUSTRIAL TECHNOLOGIES CORP.		5,355.00	021242		
7/06/16	01051			CREDIT #S1390397001 PVC PARTS DISCOUNT	LEHMAN PIPE & PLUMBING SUPPLY, INC.		108.00	021243		
7/06/16	00351			BULBS/ADMIN BULBS/CATWALK	LIGHT BULBS UNLIMITED		65.94	021244		
7/06/16	00072			TIE-DOWN STRAPS/HEADWORKS STEEL TOE BOOTS	RITZ SAFETY EQUIPMENT, LLC		65.28	021245		
7/06/16	00053			MANAGEMENT FEE 06/16	SEVERN TRENT ENVIRONMENTAL SERVICES		6,556.33	021246		
7/06/16	00200			PAINT/ROTOGUARD	SHERWIN-WILLIAMS		246.11	021247		
7/06/16	01175			AUCTION WORKSHOP	SUN-SENTINEL (SOUTH FLORIDA)		177.90	021248		
7/06/16	01462			UNIFORMS-GF 6/22/16 UNIFORMS-WATER UNIFORMS-WW UNIFORMS-MAINT UNIFORMS-FIELD 6/22/16 UNIFORMS-WATER UNIFORMS-WW UNIFORMS-MAINT UNIFORMS-FIELD 6/29/16 UNIFORMS-GF 6/29/16	UNIFIRST CORPORATION		400.46	021249		
				DIESEL SPILL/GEN 5	URS CORPORATION SOUTHERN		15,108.40	021250		

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CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO NUMBER	YRMO	FND	DPT	ACCT#	SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/06/16	01183								INTEREST 2007 SER 07/16	US BANK	161,331.00	021251	
7/06/16	01467								PRINCIPAL 2007 SER 07/16	US BANK	97,500.00	021252	
7/06/16	01498								RENTAL COMPRESSOR	USA EQUIPMENT SOLUTIONS	665.00	021253	
7/06/16	00441								STUDY BOOKS FREIGHT	USA BLUEBOOK	287.60	021254	
7/08/16	88888								400014910 FETLAR LLC	FETLAR LLC	100.00	021255	
7/08/16	88888								400023606 *LARA CRISTINA	*CRISTINA LARA	30.05	021256	
7/08/16	88888								800150906 KRANTZ CHARLES	CHARLES KRANTZ	61.93	021257	
7/08/16	88888								500237606 SRP SUB LLC	SRP SUB LLC	100.00	021258	
7/08/16	88888								600248505 *MENSEL ROBERT	*ROBERT MENSEL	61.93	021259	
7/08/16	88888								900470109 *CORTEZ STEPHEN	*STEPHEN CORTEZ	100.00	021260	
7/08/16	88888								900470804 COX MIGDALIA/RO	MIGDALIA/RODNEY COX	43.45	021261	
7/08/16	88888								100726307 *BOYD LEKISHA	*LEKISHA BOYD	61.93	021262	
7/08/16	88888								100740407 IH4 PROPERTIES	IH4 PROPERTIES LP	38.07	021263	
7/08/16	88888								100754019 *CARMONA DAVID	*DAVID CARMONA	61.93	021264	
7/08/16	88888								100754020 GOLDFARB SETH	SETH GOLDFARB	41.93	021265	
7/08/16	88888								100758006 *BUTLER SEAN	*SEAN BUTLER	52.98	021266	
7/08/16	88888								100764009 *SUELZNER KAJTA	*KAJTA SUELZNER	30.53	021267	
7/08/16	88888								610226304 GREEN MAUREEN	MAUREEN GREEN	61.93	021268	
7/08/16	88888								210307106 COMPLETE REALES	COMPLETE REALESTATE OPTIONS	100.00	021269	
7/08/16	88888								010413704 *BEHRENS BRIAN	*BRIAN BEHRENS	43.40	021270	
7/08/16	88888								010424307 FREQ FLORIDA, L	FREQ FLORIDA, LLC	100.00	021271	
7/08/16	88888								010424308 *MC GROGGAN CAN	*CANDACE MC GROGGAN	36.56	021272	
7/08/16	88888								210483908 *BRODOWSKY DAVI	*DAVID BRODOWSKY	61.93	021273	
7/08/16	88888								910489405 *WARING BRANDON	*BRANDON WARING	18.77	021274	
7/08/16	88888								420148905 VEIGA IRENE	IRENE VEIGA	11.75	021275	
7/08/16	88888								120531505 HEARN EDWIN	EDWIN HEARN	35.57	021276	
7/08/16	88888								830049608 REYES FREDDY/OL	FREDDY REYES/CECILIA OLIVER	61.93	021277	

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\*\*\* CHECK DATES 07/01/2016 - 07/31/2016 \*\*\*

CSID - WATER & SEWER FUND  
BANK H CHKING-ENTERPRISE

CHECK DATE	VEND#	INVOICE DATE	NUMBER	EXPENSED TO YRMO	FND DPT ACCT#	SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/08/16	88888		730082611				OCWEN			832.11	021278
7/08/16	88888		630201809				CLARKE DENISE			5.21	021279
7/08/16	88888		430242320				*DRUMMOND ANDRA			49.56	021280
7/08/16	88888		930586204				SCHULTZ RYAN			5.64	021281
7/08/16	88888		930594712				*RANDOLPH DIANN			61.93	021282
7/08/16	88888		640196905				FAGAN THELMA			23.86	021283
7/08/16	88888		240288504				SEGREDO ROBERT			161.93	021284
7/08/16	88888		840817104				GONZALEZ ANA			100.00	021285
7/08/16	88888		940828310				*MAS LISA			29.44	021286
7/08/16	88888		450143112				SOLORZANO CONNI			15.88	021287
7/08/16	88888		550305703				BORELLO DENNIS			61.93	021288
7/08/16	88888		950522906				HOLMQUIST DANA			60.82	021289
7/08/16	88888		250571610				GUZMAN VALERIE			181.99	021290
7/08/16	88888		760033911				*NORMAN BRUCE			6.02	021291
7/08/16	88888		960441506				*CARTER JASON/L			41.87	021292
7/08/16	88888		960443107				BANK OF AMERICA			61.93	021293
7/08/16	88888		960472808				MONTANARELLA N.			49.69	021294
7/08/16	88888		960474811				*CERULLO IRIS			100.00	021295
7/08/16	88888		060637906				DAVIDOVE MICHAEL			68.31	021296
7/08/16	88888		160729805				*OWENS MARTHA			61.93	021297
7/08/16	88888		470407414				*DAVIS JAIME			46.20	021298
7/08/16	88888		470644103				CALABRO LOIS			121.93	021299
7/08/16	88888		170737407				EAGLECREEK REAL			100.00	021300
7/08/16	88888		170737410				*SCHWARTZ ANNE			61.93	021301
7/08/16	88888		170737505				*HANSEN RANDOLP			53.40	021302
7/08/16	88888		170810814				*ARBENUAR RODRI			47.44	021303
7/08/16	88888		380014013				PHEIRIM ERNEST			61.93	021304

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\*\*\* CHECK DATES 07/01/2016 - 07/31/2016 \*\*\* CSID - WATER & SEWER FUND  
BANK H CHKING-ENTERPRISE

CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO NUMBER YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/08/16	88888		980664613 OVIEDO M/GOMEZ	M OVIEDO/A GOMEZ			94.27	021305
7/08/16	88888		790050409 RODRIGUEZ WILFR	WILFREDO RODRIGUEZ			111.93	021306
7/08/16	88888		790113304 BEVIS MARY	MARY BEVIS			104.44	021307
7/08/16	88888		390204107 CROWTHER MICHAEL	MICHAEL/SUSAN CROWTHER			61.93	021308
7/08/16	88888		290392303 MAC LAREN MONIQ	MONIQUE MAC LAREN			23.86	021309
7/08/16	88888		090741806 ALTISOURCE SING	ALTISOURCE SINGLE FAMILY INC			83.83	021310
7/08/16	88888		790773905 KERR SUSAN	SUSAN KERR			45.15	021311
7/08/16	88888		190848207 *BOLAND JILL	*JILL BOLAND			100.00	021312
7/08/16	88888		190850502 FRANKEL BARRY	BARRY FRANKEL			20.77	021313
7/08/16	88888		090856607 IDEAL REALESTAT	IDEAL REALESTATE			176.93	021314
7/08/16	88888		890915803 *DEVITO JEFFREY	*JEFFREY DEVITO			54.01	021315
7/08/16	01332		MEMBRANE CLEANER	AMERICAN WATER CHEMICALS, INC.			4,580.55	021316
7/08/16	01248		DRIVEWAY REPAIR/FINAL	A+ CONCRETE RESTORATION			1,400.00	021317
7/08/16	00625		REMEDIATION LIC # 1218	BROWARD COUNTY BOARD OF COUNTY			2,000.00	021318
7/08/16	00023		ADMIN ELECTRIC 06/16 PLT-WATER ELECTRIC 06/16 PLT-WASTE ELECTRIC 06/16 FIELD ELECTRIC 06/16	FLORIDA POWER & LIGHT CO.			56,258.95	021319
7/08/16	01507		USED OIL	HERITAGE-CRYSTAL CLEAN LLC			30.00	021320
7/08/16	01397		LICENSE-AFZAL H.	HOSEIN, AFZAL			211.00	021321
7/08/16	01231		FICA EXPENSE	MUTUAL OF OMAHA			85.11	021322
7/08/16	01529		TRASH SERVICES-06/16	WASTE PRO-PEMBROKE PINES			458.33	021323
7/15/16	01303		FEED MOTOR BEARINGS	AB ELECTRIC MOTORS & PUMPS			1,409.77	021324
7/15/16	01040		INTERNET CONNECTION 07/16	ADVANCED CABLE COMMUNICATIONS			139.02	021325
7/15/16	01354		INS-W/H 07/14/16 GAP INS-PTREE 07/14/16 INS-W/H 07/28/16 GAP INS-PTREE 07/28/16 GAP INS-GP/BOARD 07/31/16	AMERICAN PUBLIC LIFE INSURANCE			1,017.34	021326
7/15/16	01374		ADMIN VISION 08/16 WATER VISION 08/16					

\*\*\* CHECK DATES 07/01/2016 - 07/31/2016 \*\*\*

CSID - WATER & SEWER FUND  
BANK H CHKING-ENTERPRISE

CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO... NUMBER YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/15/16	00169		WW VISION 08/16 MAINT VISION 08/16 FIELD VISION 08/16 VISION..CSID-GF 08/16 VISION..PINETREE 08/16	AMERITAS LIFE INSURANCE CORP-VISION		957.44	021327	
7/15/16	01551		WELL MAINT. JUNE	AQUIFER MAINT & PERFORMANCE SYSTEMS		4,307.50	021328	
7/15/16	01177		PAINT INTERCONNECT	CITY OF TAMARAC-UTILITIES		2,147.50	021329	
7/15/16	00174		REPAIRS/AIR COMPRESSOR	COMP-AIR SERVICE CO.		292.13	021330	
7/15/16	01327		MONITOR ADM 07/1-09/30/16 MONITOR FLD 07/1-09/30/16	CYPRESS TRACE SECURITY INC.		162.00	021331	
7/15/16	01452		RENTAL-CENTRAL 7/2016 RENTAL-LS 7/2016	DATA FLOW SYSTEMS, INC		4,670.00	021332	
7/15/16	00018		PRESSURE GAUGE-STRAINER STEEL FITTINGS-STRAINER STEEL BRACKET-STRAINER PLASTIC COVER-STRAINER LABOR-STRAINER	DELTA CONTROLS		2,159.28	021333	
7/15/16	00056		GENERAL SUPPLIES	FERGUSON ENTERPRISES, INC.		617.00	021334	
7/15/16	00138		CBOD & TSS 6060709 RO CONCEN 6060710 CBOD & TSS 6060711 CBOD & TSS 6060712 CBOD & TSS 6060713 CBOD & TSS 6060715 CBOD & TSS 6060716 LEAD & COPPER	FLORIDA SPECTRUM ENV. SERVICES, INC		1,051.60	021335	
7/15/16	00996		HOSE/PLANT E	GENERAL RENTAL CENTER		60.00	021336	
7/15/16	01535		SODA ASH	HARCROS CHEMICALS		833.00	021337	
7/15/16	01046		SULFURIC ACID 1996.78 QTY SULFURIC ACID HYDROFLUOSILICIC ACID	HAWKINS, INC.		8,990.97	021338	
7/15/16	00033		GENERAL SUPPLIES	HD SUPPLY WATERWORKS, LTD		564.84	021339	
7/15/16	01397		SUPPLIES SAWZALL/SUPPLIES THRESHOLD PAINT/CHOLRINE BLDG PAINT FOR GARAGE	HOME DEPOT		1,095.63	021340	
7/15/16	01329		REIMB BOOT ALLOW FY2016	HOSEIN, AFZAL		90.00	021341	
			IRA-07/12/16 PLAN 705880	VANTAGEPOINT TRANSFER AGENTS-705880		785.00	021342	

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\*\*\* CHECK DATES 07/01/2016 - 07/31/2016 \*\*\*

CSID - WATER & SEWER FUND  
BANK H CHKING-ENTERPRISE

CHECK DATE	VEND#	INVOICE DATE	NUMBER	EXPENSED TO YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/15/16	00346				DEGAS CLEANING PROJECT	INDUSTRIAL HOSE & HYDRAULICS, INC.		786.04	021343
7/15/16	01486				PLANT WATER GAS PLANT WASTE GAS PLANT MAINT GAS FIELD GAS DIESEL FUEL/FIELD FUEL/GENERATORS	LANK OIL COMPANY		10,264.58	021344
7/15/16	01532				HYDRANT REPLACEMENT HYDRANT REPLACEMENT	LINE-TEC INC.		5,984.92	021345
7/15/16	01549				VALUE ID & INSERT	MADSEN-BARR CORPORATION		3,317.25	021346
7/15/16	00155				ADMIN NEXTEL 07/16 PLANT-WATER NEXTEL 07/16 PLANT-WASTE NEXTEL 07/16 PLANT-MAINT NEXTEL 07/16 FIELD NEXTEL 07/16 NEXTEL 07/16 DUE SUNSHINE NEXTEL 07/16 DUE CSID GF	NEXTEL COMMUNICATIONS		1,274.39	021347
7/15/16	01150				TONER, PENS & WRITING PADS WRITING PADS	OFFICE DEPOT		119.01	021348
7/15/16	00045				OIL FILTER/SLUDGE TRUCK OIL FILTER/SLUDGE TRUCK OIL/SLUDGE TRUCK	PEP BOYS		245.98	021349
7/15/16	01419				REIMB TO \$7,000 06/30/16	POSTMASTER		2,520.53	021350
7/15/16	01416				.UTIL STMTS 06/2016 ADD'L METERED POSTAGE	PRIDE ENTERPRISES		1,287.32	021351
7/15/16	00351				SAFETY SUPPLIES SAFETY SUPPLIES	RITZ SAFETY EQUIPMENT, LLC		580.01	021352
7/15/16	01175				UNIFORMS-WATER UNIFORMS-WW UNIFORMS-MAINT UNIFORMS-FIELD UNIFORMS-GF 7/06/16	UNIFIRST CORPORATION		248.11	021353
7/15/16	00441				LAB CHEMICALS FRIEGHT	USA BLUEBOOK		902.29	021354
7/15/16	01264				ADMIN PHONE 07/16 FIELD PHONE 07/16	WINDSTREAM NUVOX, INC.		143.50	021355
7/15/16	01264				ADMIN PHONE 07/16 WASTE PHONE 07/16 FIELD PHONE 07/16	WINDSTREAM NUVOX, INC.		190.62	021356
7/25/16	00005				COT SOD HYP0				

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CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO... NUMBER YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/25/16	01354			COT SOD HYPO ALLIED UNIVERSAL CORP.			3,376.64	021357
				INS-W/H 08/11/16 GAP INS-PTREE 08/11/16 INS-W/H 08/25/16 GAP INS-PTREE 08/25/16 GAP INS-GF/BOARD 08/25/16				
7/25/16	01089			AMERICAN PUBLIC LIFE INSURANCE			1,017.34	021358
7/25/16	01240			PLANT PHONE WATER 07/16 AT & T			58.93	021359
7/25/16	01256			REIMB.BOOT ALLOW FY2016 BROCK, WILLIAM			90.00	021360
7/25/16	01267			SOD/PALLET PALLET FEE CORAL SPRINGS NURSERY, INC.			151.00	021361
7/25/16	01452			UNIT=117 USED MOTOR UNIT=028 NEW BATTERY CYPRESS MOBIL			6,110.00	021362
7/25/16	00018			CALIBRATION CERT. PH PROBE DELTA CONTROLS			2,256.00	021363
7/25/16	00056			GENERAL SUPPLIES FERGUSON ENTERPRISES, INC.			39.70	021364
7/25/16	01241			RO CONCEN 6060717 LEAD & COPPER 6060819 MONTHLY BACT 6060820 REPEAT SAMPLING 6060821 MONITORING WELLS 6060855 CBOD & TSS 6060865 CBOD & TSS 6060866 FLORIDA SPECTRUM ENV. SERVICES, INC			1,994.00	021365
7/25/16	00514			REIMB.BOOT ALLOW FY2016 FOGLE, BRYAN			90.00	021366
7/25/16	01515			SLUDGE MGMT SEWER 06/16 H & H LIQUID SLUDGE DISPOSAL, INC.			16,560.00	021367
7/25/16	01535			ASPHALT HARDRIVES ASPHALT COMPANY			1,528.56	021368
7/25/16	00033			SULFURIC ACID 2,200.784 G SODIUM HYDROXIDE ANTISCALANT PLUS HAWKINS, INC.			8,972.87	021369
7/25/16	00669			PLANT E/CONCRETE MAINT. SUPPLIES PAINT SUPPLIES SUPPLIES PAINT/SUPPLIES/GARAGE HOME DEPOT			673.68	021370
7/25/16	01506			REIMB.BOOT ALLOW FY2016 JOSEPH, MARTINUS			67.57	021371
7/25/16	01345			PLANT E KAMAN INDUSTRIAL TECHNOLOGIES CORP.			589.00	021372
7/25/16	01302			DEGAS CLEANING PROJ. LEHMAN PIPE & PLUMBING SUPPLY, INC.			266.04	021373
				LEGAL/LEGISLATION 06/2016 LEWIS, LONGMAN & WALKER, P.A.			295.00	021374

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CHECK DATE	VEND#	INVOICE DATE	EXPENSED TO NUMBER YRMO FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
7/25/16	00881		LICENSE-JOHN L. REIMB MILEAGE	LUCIBELLO, JOHN		522.30	021375	
7/25/16	00576		PLANT E RAS PUMP 1	MOTION INDUSTRIES, INC.		100.85	021376	
7/25/16	01434		2,500 SECURITY CHECKS	MICHAEL PEAKE		163.00	021377	
7/25/16	01259		PLANT E DECANT PUMP	POLLARDWATER.COM - EAST		1,215.00	021378	
7/25/16	00551		PUMP REPAIR	RICE PUMP & MOTOR INC		65.00	021379	
7/25/16	00351		SAFETY SUPPLIES/GLOVES SAFETY SUPPLIES/GLOVES	RITZ SAFETY EQUIPMENT, LLC		680.00	021380	
7/25/16	01482		LICENSE-LESTER R. REIMB MILEAGE	ROBERTS, LESTER		508.01	021381	
7/25/16	00782		LOCATES/JUNE	SUNSHINE STATE ONE CALL OF FLA.		175.92	021382	
7/25/16	01076		LICENSE-GREG T. REIMB MILEAGE	THOMPSON, GREGORY		492.56	021383	
7/25/16	01175		UNIFORMS-WATER UNIFORMS-WW UNIFORMS-MAINT UNIFORMS-FIELD UNIFORMS-GF 7/13/16 UNIFORMS-WATER UNIFORMS-WW UNIFORMS-MAINT UNIFORMS-FIELD UNIFORMS-GF 7/20/16	UNIFIRST CORPORATION		394.06	021384	
7/25/16	01498		FORK LIFT REPAIRS	USA EQUIPMENT SOLUTIONS		511.50	021385	
7/25/16	00441		MAINTENANCE KIT FREIGHT	USA BLUEBOOK		269.07	021386	
7/25/16	01264		FRONT GATE PHONE 07/16	WINDSTREAM NUVOX, INC.		59.55	021387	
7/25/16	01264		ADMIN PHONE 07/16 FIELD PHONE 07/16	WINDSTREAM NUVOX, INC.		543.89	021388	
7/25/16	01011		COPIER LEASE #7232 07/16 COPIER READS #7232 07/16 COPIER LEASE #7835 06/16 COPIER READS #7835 06/16	XEROX CORPORATION		228.91	021389	
7/25/16	00753		PLUMBING REPAIR	ZEE BEST PLUMBING, INC.		195.00	021390	
7/29/16	00822		AFLAC-W/H 07/16 AFLAC-PTREE 07/16	AFLAC		2,792.52	021391	
7/29/16	01373		DENTAL..CSID-GF 08/16					

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CHECK DATE	VEND#	INVOICE DATE	NUMBER	EXPENSED TO YRMO	FND DPT ACCT# SUB	VENDOR NAME	STATUS	AMOUNT	CHECK AMOUNT	CHECK #
						DENTAL..PINETREE 08/16				
						ADMIN DENTAL 08/16				
						WATER DENTAL 08/16				
						WW DENTAL 08/16				
						MAINT DENTAL 08/16				
						FIELD DENTAL 08/16				
7/29/16	01554					AMERITAS LIFE INSURANCE CORP-DENTAL		4,743.24	021392	
7/29/16	00666					REIMB BOOT ALLOW FY 2016 CARABALLO, ARKIE		90.00	021393	
7/29/16	01329					REIMB BOOT ALLOW FY2016 FLORES-ROMAN, MANUEL		86.90	021394	
7/29/16	01231					IRA-07/26/16 PLAN 705880 VANTAGEPOINT TRANSFER AGENTS-705880		785.00	021395	
						ADMIN LIFE INS 08/16				
						WATER LIFE INS 08/16				
						WW LIFE INS 08/16				
						MAINT LIFE INS 08/16				
						FIELD LIFE INS 08/16				
						LIFE INS W/H..WS 08/16				
						LIFE INS W/H..GF 08/16				
						LIFE INS..CSID-GF.ER08/16				
						LIFE INS.PTREE-ER 08/16				
						LIFE INS.PTREE-EE 08/16				
7/29/16	01125					MUTUAL OF OMAHA		5,929.18	021396	
7/29/16	01536					REIMB BOOT ALLOW FY2016 OUIMET, STEPHEN		90.00	021397	
7/29/16	01166					REIMB BOOT ALLOW FY2016 RHODEN, DWYANE		40.21	021398	
7/29/16	00845					REIMB BOOT ALLOW FY2016 RODRIGUEZ, DANIEL		90.00	021399	
7/29/16	01253					REIMB BOOT ALLOW FY2016 ROSE, KENNETH		89.67	021400	
7/29/16	01011					REIMB BOOT ALLOW FY2016 STEPHENS, JOSEPH		90.00	021401	
						COPIER LEASE #7535 06/16				
						COPIER READS #7535 06/16				
						COPIER READS #7535 06/16				
						XEROX CORPORATION		227.68	021402	
						TOTAL FOR BANK H		551,399.58		
						TOTAL FOR REGISTER		551,399.58		

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