

RESOLUTION NO. 2011 - 149

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO AWARD BID NO. 11-65 AND TO EXECUTE A PURCHASE ORDER FOR THE PURCHASE OF SAWGRASS WWTP REUSE DISC FILTER

RECITALS

WHEREAS, the County desires to enter into a contract with I. Kruger Inc. to purchase Sawgrass WWTP Reuse Disc Filter; and

WHEREAS, the scope of the project shall consist of the purchase of Reuse Disc Filter; and

WHEREAS, through the County's formal bid process, I. Kruger Inc. selected as the most qualified respondent to enter into a contract with the County to perform the work referenced above; and

WHEREAS, the project is being funded by the Utility Department; and

WHEREAS, the County has reviewed the terms, provisions, conditions and requirements of the Contract (attached hereto, an incorporated herein) and finds that entering into the Contract serves a public purpose.

NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, as follows:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as finds of fact.

Section 2. The County Administrator, or designee, is hereby authorized to award Bid No. 11-65 to I. Kruger Inc. ("Kruger").

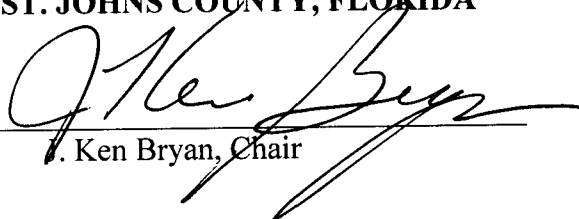
Section 3. The County Administrator, or designee, is further authorized to execute A Purchase Order with Kruger on behalf of the County for the purchase of Sawgrass WWTP Reuse Disc Filter as specifically provided in Bid No 11-65.

Section 4. To the extent that there are typographical and/or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval by the Board of County Commissioners.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this 7th day of June, 2011.

**BOARD OF COUNTY COMMISSIONERS
OF ST. JOHNS COUNTY, FLORIDA**

By: _____

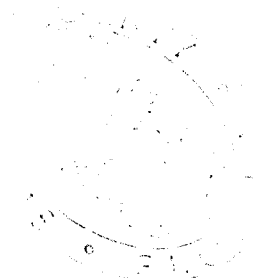


J. Ken Bryan, Chair

ATTEST: Cheryl Strickland, Clerk

By: Ram Halterman
Deputy Clerk

RENDITION DATE 6/7/11





St. Johns County Board of County Commissioners

Utility Department

INTEROFFICE MEMORANDUM

TO: Leigh Daniels
FROM: James Overton
SUBJECT: Sawgrass WWTF Disc Filter Bid - Recommendation of Award
DATE: 5/3/2011

St. Johns County Utility Department (SJCUD) and our Engineer of Record on this project, Applied Technology and Management (ATM) have reviewed both bids received on April 13, 2011 from Siemens and Kruger for the Sawgrass Wastewater Treatment Facility (WWTF) Disc Filter. Although Siemens was the low bidder for this equipment, there were some deviations from the specified requirements that need to be discussed. A summary of these deviations are attached from our Specification Review dated April 18, 2011.

Among other deviations, the most apparent is that the Siemens disc filter does not have the required experience required by the specification to demonstrate the ability and skill to perform in this application. The specifications call for a minimum of 10 years total experience for this equipment with a minimum of 30 installations (10 of which were to be based in Florida). Our intent for this requirement was to demonstrate a proven performance and track record for this equipment in Florida. Siemens only documented six (6) references in Attachment 'B' and the earliest dates listed were late 2008.

Experience and performance are important requirements for this equipment. Should the new disc filter not meet the performance requirements in the specifications, or if significant operational problems occur requiring the filter to be placed out of service, there is no back up tertiary filtration system in-place at the Sawgrass WWTF.. Approximately 85-90% of the effluent from the WWTF is discharged to a holding pond in Sawgrass to be used for irrigation within the development. If the filter is not able to meet the performance requirements or has an operational/mechanical failure, the effluent from the WWTF is discharged to the Intracoastal Waterway, requiring the Facility to monitor for total nitrogen and toxicity. Violations of these parameters will lead to more extensive and expensive sampling and analysis as well as potential fines.

Siemens also did not comply with the requested field services under specification section 3.02. A. that required a minimum of four (4) days and two separate trips. Siemens bid only included two (2) days and one (1) trip.

Although it was not specifically excluded in the specifications, we are undecided and not sure regarding the durability of the pleated design of the filter media panels. The Siemens disc filter uses pleated woven polyester filter media panels instead of the flat woven polyester filter media



St. Johns County Board of County Commissioners

Utility Department

panels specified as our basis of design. The pleated panels are constructed of a plastic-reinforced structure comprised of ridge bars and stringers for support. The marketed advantage is that the pleated panels are supposed to provide more surface area per disc than the flat panels and therefore fewer discs are needed for the disc filter unit. Our concern is that the Siemens pleated design has only been around over the last five (5) years and we have recently heard of a few cases where early installations had problems with the pleated panels tearing, allowing unfiltered water to pass through the disc filter. It is unknown at this point if the problems have been completely addressed or how durable the pleated panels are over time due to the limited service history, and due to the fact that the installed units have not been in service long enough to determine the true life expectancy for the media panels.

Another point to note is the "Terms and Conditions" placed on both the Siemens and Kruger bids. Both took exception and did not accept the "Terms and Conditions" of the County Purchasing Manual, in lieu of the County's Purchasing Manual, they offer the following Terms and Conditions:

"This proposal by (Siemens/Kruger) is further contingent upon such things as: (i) resolution of mutually acceptable payment terms; (ii) (Siemens/Kruger) satisfactory completion of an anti-corruption due diligence review, and (iii) written agreement specifically acknowledging acceptance of the terms and conditions mutually agreeable upon by the parties."

Both also took exception to the County's payment terms that are defined in the Instruction to Bidders item #2 as payment terms are net 45 days. This is something that needs to be addressed with either manufacturer before moving forward.

Based upon our evaluation of the bids and the above summary, the Siemens equipment has deviations to our specifications that may cause possible operational issues. Although some of our concerns could be resolved with extended warranties, we are not sure at this time if that is our best solution. Due to our urgency in meeting permit conditions at the Sawgrass facility we recommend award of the bid to second lowest Bidder, Kruger. Kruger has a demonstrated track record with this type of equipment and its ability to consistently meet the hydraulic loading required and consistently maintain TSS < 5 mg/l.



St. Johns County Board of County Commissioners

Utility Department

INTEROFFICE MEMORANDUM

TO: Larry Miller
FROM: James Overton
SUBJECT: Sawgrass Disc Filter Bid – Specification Review
DATE: 4/18/11

Siemens Disc Filter Specification Review

1.01 Description of Work

Add: Manufacturer shall be responsible for all additional costs such as engineering, excavation, piping, equipment slabs, etc. associated with using a different filter than what is shown on the drawings.

1.02 Quality Assurance

Siemens does not meet Part D of the specification.

1.05 Performance Requirements

Siemens: 6 discs

Kruger: 7 discs

Specification: 7 discs

Siemens: 7.7-foot (2.3-meter) disc diameter

Kruger: 2.2-meter disc diameter

Specification: 2.2-meter disc diameter

Siemens: 269.4 ft² effective filter surface area (3.8 gpm/ft²)

Kruger: 274 ft² effective filter surface area (3.9 gpm/ft²)

Specification: 274 ft² effective filter surface area (3.9 gpm/ft²)

Siemens: 20 nozzles/disc

Kruger: 10 nozzles/disc

Specification: 10 nozzles/disc

Siemens: 10 HP Backwash Pump

Kruger: 7.5 HP Backwash Pump

Specification: 5 HP Backwash Pump

Siemens: Backwash Flow Rate 66 gpm @ 112 psi

Kruger: Backwash Flow Rate 46 gpm @ 110 psi



St. Johns County Board of County Commissioners

Utility Department

Specification: Backwash Flow Rate 46 gpm @ 110 psi

2.02 Center Drum

Add: The center drum shall have lubricated bearings, which must be **externally** accessible for routine lubrication.

2.04 Support Frame with Enclosed Tank & Cover

Add: Tank thickness shall be a minimum of 1/8" thickness.

2.05 Backwash Cleaning System

Siemens: Polypropylene Nozzles

Kruger: Ceramic Nozzles

Specification: Ceramic Nozzles

Add: Each filter shall have one **externally** mounted low-pressure Grunfos pump.

2.07 Flow Bypass

Add: Flow Bypass language per original specification.

2.09 Control Panel and Operation

Siemens:

NEMA 4X 316 SS Enclosure

Siemens ED43 480VAC Circuit Breakers

Siemens 3RV10 Motor Starter Protectors

Siemens 3RT10 IEC Contactors

Siemens S7-1200 PLC, 1214C CPU

Siemens KTP600 Blue Mode Touch Screen

Siemens 52X NEMA 4X Pilot Devices

Kruger:

NEMA 4X 316 SS Enclosure

Square D 30A Circuit Breaker

Square D TeSys U Motor Starter

Square D Contactors

Allen Bradley PICO GFX-70 Processor

Allen Bradley PICO 1760-DUB

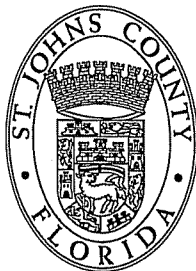
Square D Pilot Devices & Relays

3.02 Field Services

Siemens: 2 working days and 1 separate trip

Kruger: 4 working days and 2 separate trip

Specification: 4 working days and 2 separate trip



ST. JOHNS COUNTY
PURCHASING DEPARTMENT

2446 Dobbs Road
St. Augustine, Florida 32086

INTEROFFICE MEMORANDUM

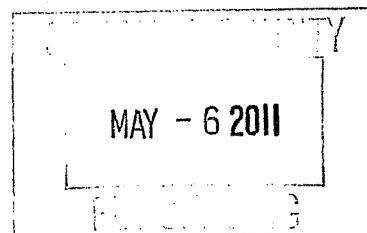
TO: Jim Overton, P.E., Utility Engineer II
FROM: Leigh Daniels, CPPB, Buyer III *[Signature]*
SUBJECT: Transmittal of Bids Received for Bid No. 11-65, Purchase of Sawgrass WWTP Reuse
Disc Filter
DATE: April 13, 2011

Attached are copies of the bid proposals received for the above mentioned along with a copy of the Bid Tabulation Sheet.

Please review, evaluate and make a written recommendation for this project. Also, indicate the budgeted amount for this item along with the appropriate charge code and return at your earliest convenience. We will prepare the agenda item and contract.

Please let me know if I can assist your department in any other way.

Dept. Approval *[Signature]*
Date 5/3/11
Budget Amount \$ 407,973
Account Funding Title REUSE FILTER REPLACEMENT
Funding Charge Code 4473-56302-6813-⁵⁶³⁰⁵VARIOUS \$ 378,215
4455-56302-6813-~~VARIOUS~~ (\$ 29,758)
Award to I. Kruger Inc.
Award Amount \$ 169,750.00



**ST. JOHNS COUNTY
BID TABULATION**

BID TITLE PURCHASE OF SAWRASS WWTP REUSE DISC FILTER

ANY BIDDER AFFECTED ADVERSELY BY AN INTENDED DECISION WITH RESPECT TO THE AWARD OF ANY BID, SHALL FILE WITH THE PURCHASING DEPARTMENT FOR ST. JOHNS COUNTY, A WRITTEN NOTICE OF INTENT FILE A PROTEST NOT LATER THAN SEVENTY-TWO (72) HOURS (EXCLUDING SATURDAY, SUNDAY AND LEGAL HOLIDAYS) AFTER THE POSTING OF THE BID TABULATION PROTEST PROCEDURES MAY BE OBTAINED IN THE PURCHASING DEPARTMENT.

OPENED BY TABULATED BY

LEIGH DANIELS
Barbara Beauchamp

VERIFIED BY

BID NUMBER 11-65

OPENING DATE/TIME April 13, 2011 2:00 PM

FROM UNTIL

POSTING DATE/TIME 04/13/11 3:00 PM

04/18/11 3:00 PM

PAGE (S) 1 of 1

BIDDERS	TOTAL PACKAGE BID PRICE	DELIVERY DATE	ADDENDUM # 1	ADDENDUM # 2				
KRUGER, INC.	\$169,750.00	28 WEEKS	YES	YES				
SIEMENS WATER TECHNOLOGIES CORP.	\$135,866.00	9/13/2011	NO	NO				

BID AWARD DATE - _____

KRÜGER

KRUGER INC.
SCOPE OF SUPPLY
FOR
SEALED BID NO. 11-65,
PURCHASE OF SAWGRASS WWTP REUSE DISC FILTER

LOCATED IN
St. Johns Co, FL

CONSULTING ENGINEER:

Applied Technology & Management
Jacksonville Beach, FL

Kruger Project No.: 42091040

DATE:

April 11, 2011

KRÜGER

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2. Kruger Inc. Standard Terms of Sale
3. Design Summary
4. Equipment Scope of Supply
5. Scope of Work
6. Scope Included by Others
7. Clarifications and Exceptions

ATTACHMENT(S):

Official Total Bid Form

Affidavit

Bidders Experience List

Acknowledgement of Addenda Receipt

Project Discfilter Layout Drawings

Kruger Carbon Footprint Assessment

Sample Certificate of Insurance

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SECTION 1

Pricing, Terms, and Schedule

1. Pricing, Terms, and Schedule

1.1 DESCRIPTION OF WORK:

I. Kruger Inc. (Kruger), an equipment supplier, proposes and agrees to furnish all labor services, materials, equipment, and all other items and facilities necessary to supply and deliver the equipment items as specified in these Proposal Documents and conditions stated herein.

1.2 PROPOSAL PRICE:

Price includes Discfilter equipment, as well as instrumentation and controls as detailed herein. The price excludes sales and/or use taxes and is contingent upon the attached Kruger Standard Terms of Sale and exceptions/clarifications stated herein. Buyer agrees to provide the necessary tax-exempt certification or Reseller documentation for sales taxes exemption within thirty (30) days after receipt of a purchase agreement executed by all parties. Furthermore, Buyer accepts responsibility for all applicable state and local sales taxes as Supplier is not registered to collect or remit state sales and/or use taxes.

Kruger shall furnish and deliver (FOB Jobsite) Discfilter Equipment as well as instrumentation and controls, including submittals, start-up and other services, in conformance to the requirements set forth in this document for the Lump Sum price of:

Please refer to the Official Total Bid Form

The price is valid for 90 days from the date of this Proposal.

1.3 LIQUIDATED DAMAGES:

Kruger shall not accept liquidated damages.

1.4 TERMS OF PAYMENT AND CONDITION OF SALE:

The terms of payment are 10% upon receipt of fully executed contract, 15% upon delivery of Submittals of shop drawings, and 75% upon delivery of equipment to destination.

Payment shall not be contingent upon receipt of funds by the CONTRACTOR from the OWNER and there shall be no retention in payments due to Kruger. All payment terms are net 45 days from date of invoice. Final payment shall not exceed 120 days from delivery of equipment. All other payment terms are as defined in Kruger's Standard Terms of Sale.

1.5 BONDS:

Pricing does not include bonds. If bonds are required, Kruger shall provide a quotation as an adder that will be based upon a quotation from our Surety.

1.6 DELIVERY SCHEDULE:

Shop drawings will be submitted within 6-8 weeks of receipt of an executed Purchase Agreement signed by all parties.

All equipment will be delivered within 18-20 weeks of receipt of approved shop drawings. If Kruger is able to ship equipment sooner than the above schedule, contractor must accept deliveries and provide adequate storage on-site for such equipment.

Operation and Maintenance Manuals will be submitted within 30 days prior to delivery of equipment.

1.7 PRICE ESCALATION:

After 90 days from the date of this proposal, the price in this proposal is subject to the following price escalation adjustment:

Price adjustments will be adjusted by comparing the index in effect on the date of the formal notice of release of fabrication (Final PPI) to the index in effect on the date of the supplier's Scope of Supply (Initial PPI) according to the following formula:

Adjusted Price = Initial Price x [(0.10 x (1 + ((Final PPI of Labor - Initial PPI of Labor)/Initial PPI of Labor))) + (0.90 x (1 + ((Final PPI of Material - Initial PPI of Material)/Initial PPI of Material)))]

Definition of values for "Labor" and "Material":

Labor: According to the above formula, 10% of the adjusted price will be associated with labor. The adjustment will be based upon the US BLS Producer Price Index (PPI) for Capital Equipment WPUSOP3200.

Material: According to the above formula, 90% of the adjusted price will be associated with materials. The adjustment will be based upon the US BLS Produce Price Index (PPI) for Metals and Metals Products WPU10.

1.8 PRIMARY CONTACT:

If any you have any questions or concerns, please contact Kruger's representative:

Bob Solomon
MTS Environmental
Phone: (904) 273-8600

1.9 THIS PROPOSAL IS RESPECTFULLY SUBMITTED BY:

CONTACT NAME: Jim Daugherty (Regional Product Manager)

SUPPLIER: I. Kruger Inc. (Kruger)

BUSINESS ADDRESS: 401 Harrison Oaks Blvd.

Suite 100

Cary, NC 27513

TELEPHONE: (919) 677-8310

1.10 PROPRIETARY INFORMATION

The information or data contained in this proposal is proprietary to Kruger and should not be copied, reproduced, duplicated, or disclosed to any third party, in whole or part, without the prior written consent of Kruger. This restriction will not apply to any information or data that is available to the public generally.

KRÜGER

SECTION 2

Kruger Inc. Standard Terms of Sale

2. I. KRUGER INC. - STANDARD TERMS OF SALE

1. Applicable Terms. These terms govern the purchase and sale of the equipment and related services, if any (collectively, "Equipment"), referred to in Seller's purchase order, quotation, proposal or acknowledgment, as the case may be ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.
2. Payment. Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation provides otherwise, freight, storage, insurance and all taxes, duties or other governmental charges relating to the Equipment shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. All payments are due within 45 days after receipt of invoice. Buyer shall be charged the lower of 1 ½% interest per month or the maximum legal rate on all amounts not received by the due date and shall pay all of Seller's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid. All orders are subject to credit approval.
3. Delivery. Delivery of the Equipment shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, Delivery terms are F.O.B. Seller's facility.
4. Ownership of Materials. All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data and other documents or information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such material solely for Buyer's use of the Equipment. Buyer shall not disclose any such material to third parties without Seller's prior written consent.
5. Changes. Seller shall not implement any changes in the scope of work described in Seller's Documentation unless Buyer and Seller agree in writing to the details of the change and any resulting price, schedule or other contractual modifications. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms.
6. Warranty. Subject to the following sentence, Seller warrants to Buyer that the Equipment shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship. The foregoing warranty shall not apply to any Equipment that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. If Buyer gives Seller prompt written notice of breach of this warranty within 18 months from delivery or 1 year from beneficial use, whichever occurs first (the "Warranty Period"), Seller shall, at its sole option and as Buyer's sole remedy, repair or replace the subject parts or refund the purchase price therefore. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (a) operating and maintaining the Equipment in accordance with Seller's instructions, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover damage caused by chemical action or abrasive material, misuse or improper installation (unless installed by Seller). **THE WARRANTIES SET FORTH IN THIS SECTION ARE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO SECTION 10 BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.**
7. Indemnity. Seller shall indemnify, defend and hold Buyer harmless from any claim, cause of action or liability incurred by Buyer as a result of third party claims for personal injury, death or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (a) promptly, within the Warranty Period, notifying Seller of any claim, and (b) providing reasonable cooperation in the defense of any claim.
8. Force Majeure. Neither Seller nor Buyer shall have any liability for any breach (except for breach of payment obligations) caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delay of carriers, failure of normal sources of supply, act of government or any other cause beyond such party's reasonable control.
9. Cancellation. If Buyer cancels or suspends its order for any reason other than Seller's breach, Buyer shall promptly pay Seller for work performed prior to cancellation or suspension and any other direct costs incurred by Seller as a result of such cancellation or suspension.
10. LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE EQUIPMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE EQUIPMENT. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.
11. Miscellaneous. If these terms are issued in connection with a government contract, they shall be deemed to include those federal acquisition regulations that are required by law to be included. These terms, together with any quotation, purchase order or acknowledgement issued or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. Buyer may not assign or permit any other transfer of the Agreement without Seller's prior written consent. The Agreement shall be governed by the laws of the State of North Carolina without regard to its conflict of laws provisions.

KRÜGER

SECTION 3

Design Summary

3.1 Design Summary

The Discfilter equipment is designed per the following design summary:

Table 1: Influent & Effluent Design Criteria

Wastewater Character	
Influent Source	SBR Advanced Nutrient Removal Process
Peak and Average Flow, MGD (gpm)	1.5 (1,041)
Influent TSS (Maximum), mg/L	≤20
Influent TSS (Daily Average), mg/L	≤10
Effluent TSS (Monthly Average), mg/L	≤5

KRÜGER

SECTION 4

Discfilter Equipment Scope of Supply

4.1 GENERAL:

Kruger will supply a total of one (1) Kruger/Hydrotech Discfilter unit – Model HSF2208/7-1F as described herein. Each filter unit will be supplied with

- Filter chassis
- Filter Media
- Local control panel as detailed in Section 4.2
- 16" Influent and Effluent Flanges
- 16" External Bypass Flange
- Backwash pump

Each Discfilter shall be supplied as follows:

Table 2: Discfilter Design and Scope

Filter Design Data	
Filter Pore Size, μm	10
Filter Cloth Material	Polyester
Number of Filter Discs per unit	7
Filter Disc Diameter, m	2.2
Filter Submerged Surface Area per unit, ft^2	274
Hydraulic Loading rate, gpm/ft^2	3.80
Material of Construction	
Frame	304 SSSL
Disc	ABS
Covers	GRP
Filter Drive Unit	
Drive Motor	1.5 Hp, 460v, 3 phase
Drive Motor Service Factor	1.3
Drive Assembly	Chain and Sprocket
Backwash Cleaning System	
Backwash Pump	7.5 Hp, 460v, 3 phase
Backwash Pressure, psi	110
Backwash Flowrate, gpm	46

The following is a list of spare parts provided for this project:

- 4 Filter Panels
- 4 Nozzle Assembly (Nut, Tip, and Gasket Included)

IMPORTANT NOTE: NO ADDITIONAL TOOLS AND/OR SPARE PARTS OTHER THAN LISTED ABOVE WILL BE PROVIDED AS PART OF KRUGER'S SCOPE OF SUPPLY. OIL AND LUBRICANTS ARE NOT INCLUDED AS PART OF KRUGER'S SCOPE OF SUPPLY. THESE ARE TO THE RESPONSIBILITY OF THE CONTRACTOR.

4.2 CONTROL PANELS:

One (1) Control Panel will be supplied for each Kruger/Hydrotech Discfilter unit supplied as specified below; to monitor and control the Discfilter. The Panel will consist of the following:

Discfilter Control Panel (DCP)

Qty	Description	Manufacturer
1	NEMA 4X 316 Stainless Steel Wall Mount Enclosure 42"H x 30"W x 10"D (42EL3010SSLP)	Saginaw
1	Back Panel for Control Panel 40"H x 28"W (SCE42P30)	Saginaw
1	Aluminum Control Panel Sunshield	Kruger
1	NEMA 3R Fan Kit w/Rain Hood	Pfannenbergl
1	30A Fused Through the Door Disconnect	Square D
3	30A Class J Fuses for Disconnect	Bussman
1	PICO Display Unit w/Keypad (PICO 1760-DUB)	Allen Bradley
1	PICO Display Unit Protective Membrane (1760-NDM)	Allen Bradley
1	PICO GFX-70 Processor Unit (1760-LDFCA)	Allen Bradley
1	PICO GFX I/O Module (1760-IA12XOW4I)	Allen Bradley
1	480VAC 1.5HP NEMA Non-Reversing Starter w/Overload Protection (8536 SC03) for Backwash Pump Motor	Square D
1	480VAC 1.5HP Altivar 31 VFD for Discfilter Drive Motor (Altivar 31)	Square D
3	10A Class J Fuses for VFD	Bussman
1	10A Fuseholder	Bussman
1	480/120VAC Control Panel Transformer	Square D
2	30mm Hand-Off-Automatic Switch	Square D
4	30mm Pilot Lights	Square D
AR	120VAC Relays w/Base	Square D
3	Liquid Level Relays w/Base	Square D
3	Liquid Level Probes (Mounted at Factory on Filter Unit) Backwash Initiation, High Level Indication, Backwash Pump Dry Run Protection	Kruger
AR	Circuit Breakers	Square D or Equivalent
32	Double Level Field Terminal Block (UTTB4)	Phoenix Contact
AR	Circuit Breakers	Square D or Equivalent
AR	Misc. Wire and Wire Duct	
1	Completed Panel Shop Tested and UL Labeled	Kruger
1	Panel site Start-Up and Testing	Kruger

NOTE: AR means As Required. The quantity of these items will be determined at the time of panel construction.

One (1) Allen Bradley Pico (1760-DUB) Terminal Operator Interface w/Pico Controller (1760-LDFCA) will be supplied for the complete Discfilter system for the purpose of system monitoring and setpoint adjustment.

4.3 INSTRUMENTATION:

Kruger shall supply the field instruments as detailed herein per Discfilter unit supplied.

Field Instruments

Qty	Description
1	Level Probe (Backwash Initiation)
1	Level Probe (Bypass/High Level Indication)
1	Level Probe (Dry Run Backwash Pump Protection)

Kruger will calibrate and start-up Instruments supplied by Kruger. Instruments supplied by others will require calibration and start-up by others.

KRÜGER

SECTION 5

Scope of Work

5.1 Scope of Work

Kruger is responsible for process design and equipment procurement required for the Discfilter process. Kruger scope of work does not include any equipment, materials or other services not specifically defined in this proposal. The equipment scope of supply shall include the equipment as shown in the attached scope of supply.

5.2 Process Design and Engineering

Kruger will perform engineering in accordance with the applicable national codes, standards, and/or regulations (except where otherwise noted) in effect at the time of this proposal. Additionally, Kruger will provide all necessary design, installation, and operating information for equipment within its stated scope of supply. Kruger is not responsible for the design, selection, installation, operation, or maintenance of any material, equipment, or services provided by others.

Kruger will provide process engineering and design support for the system as follows:

1. Technical instruction for operation and start-up of the system
2. Equipment layout drawings
3. Equipment installation instructions
4. O&M manuals

5.3 Field Service

Kruger shall supply the following services of one (1) system-trained representative as detailed herein:

- Four (4) days, in not more than two (2) separate trips to assist with inspection check-out, start-up, and operator training.

Man-days and/or trips required beyond those indicated above will be billed at Kruger's published standard rates at time of service. Such additional days could become necessary for correction of improperly installed equipment or instrumentation, prolonged construction time, or Contractor's failure to properly coordinate start-up and training.

KRÜGER

SECTION 6

Items Not Included

6.1 Scope of Supply by Others

The following is a non-inclusive list of material that shall be furnished by the Contractor:

1. Obtain necessary construction permits and licenses, construction drawings (including interconnecting piping drawings), field office space, telephone service, and temporary electrical service.
2. All site preparation, grading, locating foundation placement, excavation for foundation, underground piping, conduits and drains.
3. Demolition and/or removal of any existing structures, equipment or facilities required for construction, and installation of the Kruger supplied systems.
4. Supply and install all bulk storage tanks, pads, and supports including the concrete basins required for the Kruger supplied systems.
5. Provide all grouting for the bottom of the tanks and all other required grout.
6. Provide and installation of all foundations, supply and installation of all embedded or underground piping, conduits and drains.
7. All backfill, compaction, finish grading, earthwork and final paving.
8. Receiving (preparation of receiving reports), unloading, storage, maintenance preservation and protection of all equipment, and materials provided by Kruger Inc.
9. Installation of all equipment and materials provided by Kruger Inc.
10. Supply, fabrication, installation, cleaning, pickling, and/or passivation of all stainless steel piping components.
11. Provide all imbedded pipe sections and valves for tank drains.
12. All cutting, welding, fitting, and finishing for all field fabricated piping.
13. Supply and installation of all flange gaskets and bolts for all piping components.
14. Supply and installation of all pipe supports.
15. Provide, install and terminate all motor control centers, motor starters, panels, transformers, and VFD's. Provide all field terminations.
16. Provide, install and terminate all variable frequency drive units as required by Kruger Inc.
17. Installation and termination of all control panels and instrumentation supplied by Kruger Inc.
18. Supply and install all sample pumps and sample lines required for the instrumentation provided by Kruger Inc.
19. Labor and material for winterizing all systems; insulating/heat tracing any tanks, piping, or tubing subjected to freezing temperatures, and water heaters when polymer solution

make-up water is expected to fall below 55 °F. Polymer solution make-up water should be potable.

20. Supply and install all electrical power and control wiring and conduit to the equipment served plus interconnection between Kruger's furnished equipment as required, including wire, cable, junction boxes, fittings, conduit, etc.
21. Supply and install all insulation, supports, drains, hold down clamps, manhole covers, condensate drain systems, wastewater valves, flanges, flex pipe joints, expansion joints, boots, gaskets, adhesives, fasteners, safety signs, and all specialty items such as strainers and traps.
22. Provide all labor, materials, supplies and utilities as required for start-up, and performance testing including laboratory facilities, analytical work and chemicals.
23. Provide all chemicals, lubricants, glycol, oils, or grease and other supplies required for equipment start-up or plant operation.
24. Provide all anchor bolts and mounting hardware.
25. Provide and install all piping required to interconnect to the Supplier's equipment.
26. Provide all nameplates, safety signs and labels.
27. Provide, and install all support beams and/or slabs for mixers, scrapers, and/or chemical feed systems.
28. Provide all floor gratings, handrails, access hatches, ladders, and access platforms.
29. Concrete, mastic, sealing compounds.
30. The Contractor shall coordinate the installation and timing of interface points such as piping and electrical with the Supplier.
31. Supply and install all sunshields and/or additional enclosures as needed when installing equipment and instrumentation outdoors.
32. Supply and install membrane waste neutralization storage tanks and neutralization waste chemical feed equipment.
33. Contractor shall be responsible for all waste and sludge storage and disposal.
34. All other necessary equipment and services not otherwise listed as specifically supplied by Kruger Inc.

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SECTION 7

Clarifications and Exceptions

KRÜGER

7.1 Clarifications and Exceptions:

Kruger reviewed the specifications and drawings pertaining to the equipment to be supplied as detailed herein. Please note the Kruger clarifications and exceptions to the specifications and drawings identified as follows:

Item No.	Specification Section or Drawing Number	Referenced Documentation	Comment Verbiage
1	<p>NOTICE TO BIDDERS: Last Paragraph; & <u>St. Johns County Purchasing Department: Instructions To Bidders</u></p>	<p>NOTICE TO BIDDERS, Last Sentence: "All of the terms and conditions of the County's Purchasing Manual are incorporated by reference and are fully binding." Instructions to Bidders, first sentence: "These instructions will bind bidders to terms and conditions herein set forth, except as specifically qualified in special bid contract terms issued with any individual bid."</p>	<p>This Scope of Supply is offered per the Kruger terms as detailed herein, including, but not limited to, terms detailed in sections 1 and 2. Kruger understands that in the event Kruger is determined to be the "low responsible bidder", the process outlined in Section 306, and more specifically section 306.4.6.7.4, of the St. Johns County Purchasing Procedures Manual will be followed in an attempt to reach mutually acceptable terms between Kruger and St. Johns County.</p>
2	<p>Specifications:1:05; & Addendum #2, item 5</p>	<p>Performance Requirements</p>	<p>Please note that performance requirements (specifically effluent TSS and hydraulic capacity) cannot be guaranteed for influent conditions above those stated within section 1.05 of the specification. Kruger understands that there may be periods of time with inlet TSS up to 100 mg/L. Hydraulic capacity of 1.5 MGD and effluent TSS of ≤ 5 mg/L cannot be guaranteed under these conditions. Kruger would expect the unit to operate in continuous backwash with some of the influent flow being filtered, while the other portion is diverted through the bypass chamber and out of the unit through the bypass flange.</p>
3	<p>Specifications:3.04</p>	<p>Inspection and Testing</p>	<p>Kruger recommends TSS analysis of composite samples in order to properly evaluate performance. Composite samples must consist of a minimum of 1 sample collected per hour and a minimum collection time period of 8 hours. The current requirement of the specification to require TSS analysis of 3 discreet samples is not sufficient to determine performance criteria compliance due to potential for human error, small number of samples, and relatively large standard deviation (+/- 50%) for TSS analysis at values of 5 mg/L (reference Standard Methods 2540-D).</p>

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ATTACHMENT

Official Total Bid Form

CONFIDENTIAL

BID NO. 11-65

**ST. JOHNS COUNTY, FLORIDA
OFFICIAL TOTAL BID FORM**

TO: THE BOARD OF COUNTY COMMISSIONERS
OF ST. JOHNS COUNTY, FLORIDA

DATE: April 11, 2011

-BID PROPOSAL-

If awarded a Purchase Order on the basis of this proposal, the undersigned pledges to provide the equipment as specified in the Bid Proposal and County Specifications barring delays due to strikes, fires, transportation difficulties or other causes beyond the control of the undersigned.

The undersigned declares that the statements and representations made in this proposal are true in every respect and that the said proposal is in all respects fair and made without collusion or fraud, and that no member of the County Board, or any other agent or employee of the County, directly or indirectly, is interested in this proposal or in any profits expected to accrue therefrom.

The following proposal is presented:

FOR: **PURCHASE OF SAWGRASS WWTP REUSE DISC FILTER, PER ATTACHED SPECIFICATIONS:**

TOTAL PACKAGE BID \$ 169,750.00*

(One hundred sixty nine thousand, seven hundred fifty dollars)*

DELIVERY DATE: ** (See Below)

Please completed Attachment "A" and "B".

* - As detailed in Kruger's Scope of Supply dated 4/11/2011 and per Kruger's standard Terms of Sale including comments, clarifications, and exceptions. In the event that Kruger is selected, Kruger will attempt to reach agreement with St. Johns County on mutually acceptable terms as outlined in 306.4.6.7.4 of the St. Johns County Purchasing Manual.

** - Delivery Schedule

Shop Drawings: Submitted within 6-8 weeks of receipt of an executed Purchase Order signed by all parties.

Equipment: Delivered within 18-20 weeks after receipt of written approval of the shop drawings.

OTBF 1

Bid No. 11-65
Disc Filter

Official Total Bid Form for the Purchase of Sawgrass WWTP Reuse

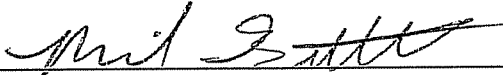
I certify that the equipment presented in the above proposal meets or exceeds the County specifications and that I, the undersigned bidder, declare that I have carefully examined the specifications, terms and conditions of this bid and I am thoroughly familiar with it's provisions and quality and type of coverage called for and bid herein. The undersigned further declares that he has not divulged, discussed or compared his bid with any other bidders and has not colluded with any other bidder or parties to a bid whatsoever for any fraudulent purpose.

COMPANY: I. Kruger Inc.

ADDRESS: 401 Harrison Oaks Boulevard; Suite 100
Cary, NC 27513

MINORITY OR WOMAN OWNED BUSINESS: No

FEDERAL ID NO. OR SOCIAL SECURITY NO.: 36-3630059

SIGNATURE:  *
Michael L. Gutshall

(Typed or Printed Signature)

TITLE: President

DATE: 04/11/2011

TELEPHONE NO.: (919) 677-8310

FAX NO.: (919) 677-0082

EMAIL ADDRESS: Mike.Gutshall@veoliawater.com

* - As detailed in Kruger's Scope of Supply dated 4/11/2011 and per Kruger's standard Terms of Sale including comments, clarifications, and exceptions. In the event that Kruger is selected, Kruger will attempt to reach agreement with St. Johns County on mutually acceptable terms as outlined in 306.4.6.7.4 of the St. Johns County Purchasing Manual.

**Bid No. 11-65
Disc Filter**

Official Total Bid Form for the Purchase of Sawgrass WWTP Reuse

Remarks to Bidder:

Bids must be submitted in **TRIPLICATE!** Bids must be placed in an envelope, sealed and plainly marked **SEALED BID NO. 11-65, FOR PURCHASE OF SAWGRASS WWTP REUSE DISC FILTER**

The company name must be indicated on the envelope, also.

All bids must be signed manually by a responsible officer of your company in ink or indelible pencil.

If there are any exceptions to the bid proposal or specifications, please state here or on attached sheet.

Attachment "A" affidavit must be completed and attached to bid proposal.

The Board of County Commissioners reserves the right to reject any or all bids, waive minor formalities or award the bid to the bidder whose proposal best services the interest of the County.

Kruger's offering is as detailed in Kruger's Scope of Supply dated 4/11/2011 and per Kruger's standard Terms of Sale including comments, clarifications, and exceptions. Please reference Section 7 of Kruger's Scope of Supply (Clarifications and Exceptions). In the event that Kruger is selected, Kruger will attempt to reach agreement with St. Johns County on mutually acceptable terms as outlined in 306.4.6.7.4 of the St. Johns County Purchasing Manual.

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ATTACHMENT

Affidavit

ATTACHMENT "A"

ST. JOHNS COUNTY BOARD OF COUNTY COMMISSIONERS

AFFIDAVIT

TO: ST. JOHNS COUNTY BOARD OF COUNTY COMMISSIONERS
ST. AUGUSTINE, FLORIDA

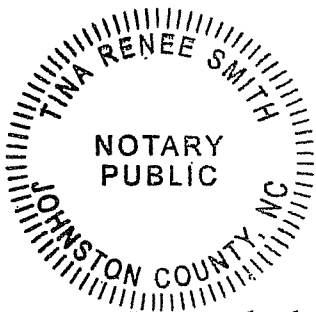
At the time the proposal is submitted, the Bidder shall attach to his bid a sworn statement.

The sworn statement shall be an affidavit in the following form, executed by an officer of the firm, association or corporation submitting the proposal and shall be sworn to before a person who is authorized by law to administer oaths.

STATE OF North Carolina COUNTY OF Wake. Before me, the undersigned authority, personally appeared Michael L. Gutshall who, being duly sworn, deposes and says he is President (Title) of I. Kruger Inc. (Firm) the bidder submitting the attached proposal for the services covered by the bid documents for Bid No: 11-65, Purchase of Sawgrass WWTP Reuse Disc Filter St. Johns County.

The affiant further states that no more than one proposal for the above referenced project will be submitted from the individual, his firm or corporation under the same or different name and that such bidder has no financial interest in the firm of another bidder for the same work. That he, his firm, association or corporation has neither directly, nor indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this firm's bid on the above described project. Furthermore, neither the firm nor any of it's officers are debarred from participating in public contract lettings in any other state.

I. Kruger Inc.
(Bidder)
By [Signature]
President
(Title)



Sworn and subscribe to before me this 11th day of April 2011.

[Signature]
Notary Public

My Commission Expires: June 27, 2015

BIDDER ON ALL COUNTY PROJECTS MUST EXECUTE & ATTACH THIS AFFIDAVIT TO EACH BID.

KRÜGER

ATTACHMENT

Bidders Experience List

CONFIDENTIAL

BID NO: 11-65

ATTACHMENT "B"

BIDDERS EXPERIENCE LIST

The following are successfully installations similar in scope to this project which the Bidder has performed within State of Florida and the Unites States:

	Agency Item Sold To	Contact Name/Phone	Date Sold
Florida:	City of Cocoa Beach, FL	Darby Blanchard/321-868-3308	2007
	City of Hastings, FL	Joey Lundquist/904-692-1520	2002
	City of Palatka, FL	Platt Drew/386-329-0146	2005
	City of Palm Coast, FL	Pat Henderson/386-986-2343	2005
	City of Okeechobee, FL	Jamie Gamiotia/863-763-3322	2007
	City of Sanford, FL	Charlie Turner/407-688-5112	2005
USA:	City of Holly Springs, NC	Randal Martinez/919-567-4738	2009
	City of Oconomowoc, WI	Tom Steinbach/262-569-2192	2008
	City of Springboro, OH	Bob Vance/937-748-9453	2006

Please refer to Kruger's North American installation list included within for additional Florida and US install sites.

(USE ADDITIONAL LINES IF NECESSARY)

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Installations Under Construction:

Project Name	Flowrate (MGD)	Application	Projected Installation/Startup	Required Effluent
Blue Springs, MO	36.00	Tertiary Filtration	2012	≤5 mg/L
Wilson Creek, TX	24.00	Tertiary Filtration/Reuse	2012	≤5 mg/L
Mesquite, TX	30.00	Tertiary Filtration	2011	≤5 mg/L
Carlisle, PA	18.20	Tertiary Filtration	2011	≤5 mg/L
Atlantic Beach, FL	10.00	Tertiary Filtration/Reuse	2011	≤5 mg/L
Brooksville, FL	8.10	Tertiary Filtration	2011	≤5 mg/L
York, SC	8.00	Tertiary Filtration	2011	≤5 mg/L, ≤1 mg/L TP
Ferrdale, CA	1.56	Tertiary Filtration/Reuse	2011	≤5 mg/L, ≤2 NTU

Installed Facilities:

Project Name	Flowrate (MGD)	Application	Installed/Startup	Required Effluent
Panther Creek, TX	15.00	Tertiary Filtration	2011	≤5 mg/L, ≤2 NTU
Stuart, FL	4.20	Tertiary Filtration/Reuse	2011	≤5 mg/L
Selbyville, DE	3.00	Tertiary Filtration	2011	≤5 mg/L
Woodridge, NY	0.80	Tertiary Filtration	2011	≤5 mg/L
Meridian, ID	18.00	Tertiary Filtration/Reuse	2010	≤5 mg/L, ≤2 NTU
Mount Holly, NJ	9.20	Tertiary Filtration	2010	≤5 mg/L
Galt, CA	6.00	Tertiary Filtration	2010	≤5 mg/L
Flemington, NJ	5.20	Wet Weather CSO	2010	≤30 mg/L
Killian Creek, NC	4.20	Tertiary Filtration	2010	≤5 mg/L
Port Orange, FL	2.00	Stormwater Filtration/Reuse	2010	≤5 mg/L
Cave Creek, AZ	1.20	Tertiary Filtration/Reuse	2010	≤5 mg/L
Royal Caribbean – Allure/Genesis II	1.06	Tertiary Filtration	2010	≤5 mg/L
Westford, MA	0.10	Tertiary Filtration	2010	≤5 mg/L
Fox Lake, IL	30.00	Tertiary Filtration	2009	≤5 mg/L
Holly Springs, NC	15.00	Tertiary Filtration	2009	≤5 mg/L
Santa Fe Paseo, NM	12.00	Tertiary Filtration	2009	≤5 mg/L
Lititz, PA	8.00	Tertiary Filtration	2009	≤5 mg/L

Kruger, Inc.
Discfilter Installation List

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Project Name	Flowrate (MGD)	Application	Installed/Startup	Required Effluent
West Brunswick, NC – Phase 2	7.50	Tertiary Filtration	2009	≤5 mg/L
Surf City, NC	3.75	Tertiary Filtration	2009	≤5 mg/L
Elk Valley (Ozark), MO	3.00	Tertiary Filtration	2009	≤5 mg/L
Mammoth, CA	2.90	Tertiary Filtration	2009	≤5 mg/L, ≤2 NTU
Oak Run, FL	2.40	Tertiary Filtration	2009	≤5 mg/L
South Martin County, FL	1.60	Tertiary Filtration/Reuse	2009	≤5 mg/L
White Sands Missile Range, NM	1.60	Tertiary Filtration	2009	≤5 mg/L
Heyburn, ID	1.50	Tertiary Filtration	2009	≤5 mg/L
Stonecrest, FL	1.50	Tertiary Filtration	2009	≤5 mg/L
Las Cruces, NM	1.40	Tertiary Filtration	2009	≤5 mg/L
Royal Caribbean – Oasis/Genesis I	1.06	Tertiary Filtration	2009	≤5 mg/L
Seneca Allegany, NY	0.79	Tertiary Filtration	2009	≤5 mg/L
Pala, CA	0.60	Tertiary Filtration	2009	≤5 mg/L, ≤2 NTU
Sunshine Village, AB	0.10	Tertiary Filtration	2009	≤5 mg/L
Colfax, CA	0.65	Tertiary Filtration	2008	≤5 mg/L
Waters Edge, TX	0.60	Tertiary Filtration	2008	≤5 mg/L
Sandestin, FL	16.00	Tertiary Filtration	2007	≤5 mg/L
Thomasville, NC	15.00	Tertiary Filtration/Reuse	2007	≤5 mg/L
Cedar Creek, GA	10.00	Tertiary Filtration	2007	≤5 mg/L
Frankfort, IL	9.00	Tertiary Filtration	2007	3 NTU
Vega Baja, PR	8.20	Tertiary Filtration	2007	≤5 mg/L
Watsonville, CA	7.70	Tertiary Filtration	2007	≤10 mg/L
Whiteville, NC	7.50	Tertiary Filtration	2007	≤2 NTU
Pickaway, OH	6.30	Tertiary Filtration	2007	≤5 mg/L
Minneola, FL	6.00	Tertiary Filtration	2007	≤5 mg/L
Okeechobee, FL	4.74	Tertiary Filtration	2007	≤5 mg/L
Live Oak, FL	4.70	Tertiary Filtration	2007	≤5 mg/L
St. Croix, USVI	4.00	Tertiary Filtration	2007	≤5 mg/L, ≤2 NTU
Groveland Sunshine, FL	4.00	Tertiary Filtration	2007	≤5 mg/L, ≤2 NTU
Las Vegas, NM	4.00	Tertiary Filtration	2007	≤5 mg/L
Wildwood, FL	3.50	Tertiary Filtration/Reuse	2007	≤5 mg/L
Cocoa Beach, FL	3.02	Tertiary Filtration	2007	≤5 mg/L
Groveland Sampey, FL	3.00	Tertiary Filtration	2007	≤5 mg/L

Kruger, Inc.
Discfilter Installation List

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Project Name	Flowrate (MGD)	Application	Installed/Startup	Required Effluent
Hot Springs, AR	2.56	Tertiary Filtration	2007	≤5 mg/L
Hertford, NC	2.50	Tertiary Filtration	2007	≤5 mg/L
Lady Lake, FL	2.00	Tertiary Filtration	2007	≤5 mg/L
Umatilla, FL	1.26	Tertiary Filtration	2007	≤5 mg/L, ≤2 NTU
York Town Village, MO	1.08	Tertiary Filtration	2007	≤5 mg/L
Hackberry, TX	1.68	Tertiary Filtration	2007	<5 mg/L
Railway Estates, IL	1.04	Tertiary Filtration	2007	-
Belleview, FL	1.00	Tertiary Filtration	2007	≤5 mg/L
Rancho Viejo, NM	1.00	Tertiary Filtration	2007	≤2 NTU
Verrado Expansion, AZ	0.96	Tertiary Filtration/Reuse	2007	≤5 mg/L, ≤2 NTU
Aruba	0.63	Tertiary Filtration	2007	≤5 mg/L
Isleta, NM	0.50	Tertiary Filtration	2007	≤2 NTU
Miles Grant, FL	0.50	Tertiary Filtration/Reuse	2007	≤5 mg/L
Whittier, NC	0.50	Tertiary Filtration	2007	≤5 mg/L
Royal Caribbean – Brilliance	0.32	Tertiary Filtration	2007	<15 mg/L
Royal Caribbean – Constellation	0.32	Tertiary Filtration	2007	<15 mg/L
Royal Caribbean – Jewel	0.32	Tertiary Filtration	2007	<15 mg/L
Royal Caribbean – Millennium	0.32	Tertiary Filtration	2007	<15 mg/L
Westville, OK	0.30	Tertiary Filtration	2007	<15 mg/L
Sunset Hill, NM	0.20	Tertiary Filtration	2007	≤5 mg/L
Tuckasegee, NC	0.20	Tertiary Filtration	2007	≤2 NTU
Mimosa Bay, NC	0.12	Tertiary Filtration	2007	≤10 mg/L
Gilbert Mesa, AZ	32.00	Tertiary Filtration	2007	≤5 mg/L
Palm Coast, FL	16.80	Tertiary Filtration/Reuse	2006	≤5 mg/L, ≤2 NTU
Springboro, OH	12.00	Tertiary Filtration	2006	≤5 mg/L
Ardmore, OK	9.00	Tertiary Filtration	2006	≤5 mg/L
Cairo, GA	8.00	Tertiary Filtration	2006	≤10 mg/L
Seacrest, FL	8.00	Tertiary Filtration/Reuse	2006	≤5 mg/L
Olivehurst, CA	7.40	Tertiary Filtration/Reuse	2006	≤2 NTU
Kissimmee, FL	7.80	Tertiary Filtration/Reuse	2006	≤5 mg/L
Mankato, MN	6.20	Tertiary Filtration	2006	≤2 NTU
Sanford, FL	5.00	Tertiary Filtration/Reuse	2006	≤5 mg/L
South Fort Collins, CO	6.75	Tertiary Filtration	2006	≤5 mg/L

Kruger, Inc.
Discfilter Installation List

Hydrotech Filtration Installation List

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Project Name	Flowrate (MGD)	Application	Installed/Startup	Required Effluent
Niceville, FL	4.00	Tertiary Filtration	2006	≤5 mg/L, ≤5 NTU
Nevada City, CA	3.00	Tertiary Filtration	2006	<2 NTU
Festival Ranch, AZ	1.00	Tertiary Filtration	2006	≤2 NTU
Hudson, FL	2.40	Tertiary Filtration/Reuse	2006	≤5 mg/L, ≤2.5 NTU
Wayne County, NY	1.75	Tertiary Filtration	2006	≤5 mg/L
Twin Lakes, OH	1.00	Tertiary Filtration	2006	≤5 mg/L
Saddlebrook, AZ	0.60	Tertiary Filtration	2006	<2 NTU
Royal Caribbean – Celebrity	0.32	Tertiary Filtration	2006	<15 mg/L
Royal Caribbean – Radiance	0.32	Tertiary Filtration	2006	<15 mg/L
Virgil, NY	0.24	Tertiary Filtration	2006	≤5 mg/L
Wonder Lake, IL	0.20	Tertiary Filtration	2006	-
Lazy Oaks, MI	0.08	Tertiary Filtration	2006	≤10 mg/L
Dorado, PR	10.00	Tertiary Filtration	2005	≤10 mg/L
Smithfield, RI	9.90	Tertiary Filtration	2005	≤5 mg/L
West Brunswick, NC	7.50	Tertiary Filtration	2005	≤5 mg/L
Okotoks, Alberta, Canada	4.50	Tertiary Filtration	2005	≤5 mg/L
Marburg (Winder), GA	3.75	Tertiary Filtration/Reuse	2005	<5 mg/L, <2 NTU
Carrabelle, FL	3.60	Tertiary Filtration/Reuse	2005	≤5 mg/L
Desert Oasis, AZ	1.00	Tertiary Filtration/Reuse	2005	≤5 mg/L
Eagle Ridge, FL	1.00	Tertiary Filtration	2005	≤5 mg/L
Pacific City, OR	1.00	Tertiary Filtration	2005	≤5 mg/L
Moncks Corner (Bard), SC	0.46	Latex facility (industrial WWTP)	2005	≤10 mg/L
Royal Caribbean – Enchantment	0.32	Tertiary Filtration	2005	≤15 mg/L
Lake Lanier, GA	0.25	Tertiary Filtration/Reuse	2005	≤5 mg/L
Duanesburg, NY	0.20	Tertiary Filtration	2005	≤5 mg/L
Ravenna, OH	6.02	Tertiary Filtration, UV Disinfection	2004	≤8 mg/L
Cassville, MO	4.30	Tertiary Filtration, UV Disinfection	2004	≤5 mg/L
Huttonsville, WV	3.00	Tertiary Filtration/Reuse	2004	≤20 mg/L
Kansas City, MO	3.00	Tertiary Filtration	2004	≤10 mg/L
Amherst, VA	1.80	Tertiary Filtration, Chlorine Disinfection	2004	≤5 mg/L
Palatka, FL	1.75	Tertiary Filtration	2004	≤5 mg/L
Rosemount, MN	1.41	Tertiary Filtration, Chlorine disinfection	2004	≤5 mg/L
Verrado, AZ	1.04	Tertiary Filtration/Reuse	2004	≤5 mg/L, ≤2 NTU

Kruger, Inc.
Discfilter Installation List

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Project Name	Flowrate (MGD)	Application	Installed/Startup	Required Effluent
Carey Station, GA	1.00	Tertiary Filtration/Reuse	2004	≤10 mg/L
Laurie, MO	0.87	Effluent Filtration	2004	≤10 mg/L
Baldwin, FL	0.80	Tertiary Filtration	2004	≤5 mg/L
Holiday Homes, OH	0.36	Tertiary Filtration	2004	≤10 mg/L
Bonita Park, NM	0.04	Tertiary Filtration/Reuse	2004	≤5 mg/L, ≤2 NTU
N.E. Brunswick County, NC	4.13	Tertiary Filtration	2003	≤10 mg/L
Seymour, MO	1.00	Tertiary Filtration	2003	≤5 mg/L
Alamogordo, NM	4.00	Tertiary Filtration/Reuse	2002	≤5 mg/L
City of Mesquite, NV	4.00	Tertiary Filtration/Reuse, UV disinfection	2002	≤5 mg/L
Village of Marissa, IL	3.73	Tertiary Filtration	2002	≤12 mg/L
Yreka, CA	1.50	Tertiary Filtration/Reuse	2002	18 µm particle removal
Oconee Crossings, GA	1.00	Tertiary Filtration/Reuse, UV Disinfection	2002	≤5 mg/L
Hastings, FL	0.60	Tertiary Filtration, Chlorine Disinfection	2002	≤5 mg/L
Fisher Road, MO	0.45	Tertiary Filtration	2002	≤5 mg/L
Grand Bahamas Utilities	1.00	Tertiary Filtration, Chlorine Disinfection	2001	-
Potlatch Corporation – Boardman, OR	-	Irrigation intake water	2000	-
Anniston, AL	-	Municipal surface water intake	1998	-

In addition to Kruger installations noted above, there are over 1800 Hydrotech filter installation sites with over 3900 units in service worldwide.

Please contact Kruger at (919) 677-8310 for more information about Hydrotech filter installations.

www.krugerusa.com

Kruger, Inc.
Discfilter Installation List

KRÜGER

ATTACHMENT

Acknowledgement of Addenda Receipt



St. Johns County Board of County Commissioners

Purchasing Division

March 31, 2011

ADDENDUM #1

To: Prospective Bidders
From: St. Johns County Purchasing Department
Subject: Bid No.: 11-65, Purchase of Sawgrass WWTP Reuse Disc Filter

This Addendum #1 is issued for further bidder's information and is hereby incorporated into the bid documents. Each bidder will ascertain before submitting a proposal that he/she has received all Addenda. *A fully executed acknowledgement of this addendum must be submitted with the Bid Proposal.*

Changes:

THE BID DUE DATE HAS BEEN CHANGED TO: Wednesday, April 13, 2011 by 2:00 P.M.

Acknowledgment

Sincerely,



Signature and Date

Leigh A. Daniels, CPPB
Buyer III
Purchasing Department

Michael L. Gutshall, President

Printed Name and Title

I. Kruger, Inc.

Company Name (Print)



St. Johns County Board of County Commissioners

Purchasing Division

April 5, 2011

ADDENDUM #2

To: Prospective Bidders
From: St. Johns County Purchasing Department
Subject: Bid No.: 11-65, Purchase of Sawgrass WWTP Reuse Disc Filter

This Addendum #2 is issued for further bidder's information and is hereby incorporated into the bid documents. Each bidder will ascertain before submitting a proposal that he/she has received all Addenda. *A fully executed acknowledgement of this addendum must be submitted with the Bid Proposal.*

Additions/Changes /Clarifications:

1. Notice to Bidders: Terms & Conditions

In reference to the last sentence on the referenced page: "All of the terms and conditions of the County's Purchasing Manual are incorporated by reference and are fully bindings", please change to "All of the mutually agreed upon terms and conditions of the County's Purchasing Manual are incorporated by reference and are fully binding."

Answer: No

2. Notice to Bidders: Terms & Conditions

Please provide Terms and Conditions which are applicable to an equipment supplier for our review. Please note that the terms and conditions reviewed by Kruger in the "St. Johns County Purchasing Procedure Manual (revised September 2009)" were applicable to a Contractor instead of an equipment supplier.

Answer: The County has no other Terms and Conditions.

3. Instructions to Bidders

Please change "These instructions will bind bidders to terms and conditions herein set forth, except as specifically qualified special bid contract terms issued with any individual bid" to "These instructions will bind bidders to mutually agreed upon terms and conditions herein set forth and within the St. Johns County Purchasing Procedure Manual, except as specifically qualified in special bid contract terms issued with any individual bid."

9. Specifications: Part 3.04:B

Please change "qualified manufacturer's representative of the membrane system" to "qualified manufacturer's representative of the Discfilter system."

Answer: The specifications have been revised accordingly.

10. Specifications: End of Section

Please add the following statement after Price quoted shall be final cost to St. Johns Co".
"The price excludes sales and/or use taxes. Buyer agrees to provide the necessary tax exempt certification or Reseller documentation for sales taxes exemption with Purchase agreement executed by all parties. Furthermore, Buyer accepts responsibility for all applicable state and local sales taxes as Supplier is not registered to collect or remit state sales and/or use taxes."

Answer: The specifications have been revised accordingly.

11. Specifications: Schedule

Please change to "shop drawings will be submitted within 6-8 weeks of receipt of an executed Purchase Order signed by all parties."

Answer: The specifications have been revised accordingly.

12. Drawings: G-2 & G-4

Please note Kruger recommends that the maximum velocity into the filter is <1.0 m/s. Please verify that the length of pipe between the filter and the 12-16" reducer is enough to ensure that maximum velocity is not exceeded.

Answer: The final drawings will be revised to indicate a run of pipe between the 16-inch influent connection to the 16" X 12" reducer to provide < 1m/s influent velocity.

13. Drawings: G-2 & G-4

Please confirm the length of 12" pipe that will be installed from the 16-12" reducer to the existing 12" piping to the chlorine contact chamber. Kruger recommends installing 16" effluent piping from the Discfilter to the existing 12" yard piping, then connecting the reducer and 12" valve. This piping arrangement will allow the backwash water to move out of the Discfilter freely, which would reduce the potential for water backing up into the filter.

Answer: The final drawings will be revised from 12-inch piping to 16-inch to the point of connection per the manufacturer's recommendation.

14. Drawings: G-3

Please note that each Discfilter will require that a Control Panel that will be mounted in close proximity of the Discfilter. Please note this should be the responsibility of the Contractor to mount this Control Panel.

Answer: Noted, this will be shown on the electrical drawings in the final plans.


22. Specifications: Part 1.01:C

Please change the original language, "*Approved equal filters are acceptable. Contractor shall be responsible for all additional costs...associated with using a different filter than what is shown on the drawings*" to the following, "*Approved equal filters are acceptable. Supplier shall be responsible for all additional costs...associated with using a different filter than what is shown on the drawings*"

Answer: The specifications have been revised accordingly using "Manufacturer".

THE BID DUE DATE REMAINS: Wednesday, April 13, 2011 by 2:00 P.M.

Acknowledgment



Signature and Date

Michael L. Gutshall, President

Printed Name and Title

I. Kruger, Inc.

Company Name (Print)

Sincerely,

Leigh A. Daniels, CPPB

Buyer III

Purchasing Department

KRÜGER

ATTACHMENT

Kruger Carbon Footprint Assessment

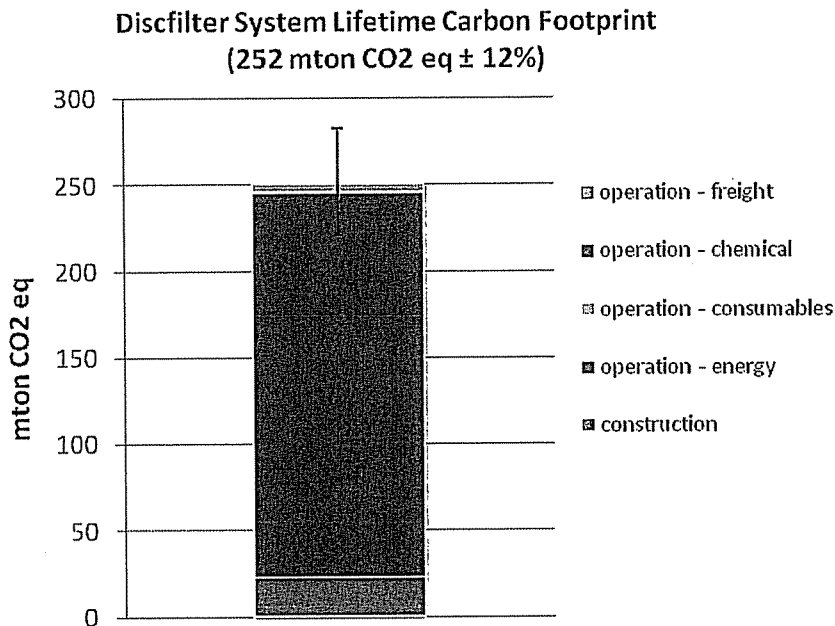
Kruger Discfilter Carbon Footprint

Kruger, along with Veolia Water Solutions & Technologies (VWS) is actively pursuing a strategy to deliver sustainable and innovative technologies and solutions.

We offer our customers integrated solutions which include resource-efficient technology to improve operations, reduce costs, achieve sustainability goals, decrease dependency on limited resource, and comply with current and anticipated regulations.

Kruger is benchmarking our technologies and solutions by performing total carbon cost analysis over the lifetime of the installation. Provided herein is a carbon footprint evaluation for the project detailed within this Scope of Supply. By committing to the innovative development of clean and sustainable technologies and solutions worldwide, Kruger and VWS will continue to maximize the financial and environmental benefits for every customer.

As part of Kruger’s ongoing benchmarking efforts, we are reviewing the carbon footprint analysis of our Hydrotech Discfilter when proposing it for projects. Provided herein is a carbon footprint evaluation for the project detailed within this Scope of Supply.



TOTAL EMISSIONS EQUIVALENCY CALCULATION

Product lifetime	20 years
Total lifetime CO ₂ eq.	252 mton CO ₂ eq

KRÜGER

ATTACHMENT

Sample Certificate of Insurance



ACORD CERTIFICATE OF LIABILITY INSURANCE Page 1 of 2		DATE 07/08/2008
PRODUCER 877-945-7378 Willis North America, Inc. 26 Century Blvd. P. O. Box 305191 Nashville, TN 372305191	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED I. Krüger Inc. 401 Harrison Oaks Blvd. Ste. 100 Cary, NC 27513	INSURERS AFFORDING COVERAGE	NAIC#
	INSURER A: Zurich American Insurance Company	16535-004
	INSURER B: American Zurich Insurance Company	40142-004
	INSURER C: Factory Mutual Insurance Company	21482-003
	INSURER D:	
	INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR INSR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	GLO373045304	7/1/2008	7/1/2009	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 1,000,000 MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS-COMP/DP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> Hired Autos <input checked="" type="checkbox"/> Non-Owned Autos GARAGE LIABILITY <input type="checkbox"/> ANY AUTO	BAP293887905	7/1/2008	7/1/2009	COMBINED SINGLE LIMIT (Per accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
	EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC293887505	7/1/2008	7/1/2009	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER EL EACH ACCIDENT \$ 1,000,000
A	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC293887605	7/1/2008	7/1/2009	EL DISEASE-EA EMPLOYEE \$ 1,000,000 EL DISEASE-POLICY LIMIT \$ 1,000,000
C	OTHER Commercial Property, Incl Business Interruption	JT941	7/1/2008	7/1/2009	Limit: \$8,000,000. Blanket "All Risk" of direct physical loss incl Boiler & Machinery Flood & Quake

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
 Evidence of Insurance

CERTIFICATE HOLDER	CANCELLATION
To Whom it May Concern	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE <i>David M. Greer</i>

ACORD 25 (2001/08)

Coll:2407503 Tpl:798109 Cert:11022130

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Solutions & Technologies

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.