SUBJECT: PURCHASE OF THREE COMBINATION SEWER CLEANER MACHINES

BID #: SC-0482-19 **OPEN DATE:** 2019-05-22

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT: SUPPLY CONTRACT – DATE OF AWARD THROUGH SEPTEMBER 30, 2019 WITH TWO (2) ONE (1) YEAR RENEWAL OPTIONS

AGENCY: FLEET MANAGEMENT

BASIS OF AWARD: ALL OR NONE TO THE LOWEST RESPONSIVE, RESPONSIBLE BIDDER

NUMBER OF BIDS INVITED: (5) **NUMBER RECEIVED:** (2) **OTHER:** (0)

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Recommend approval to reject Environmental Products Group, Inc. for being nonresponsive; specifically for submitting an "equivalent equipment" bid that utilizes a PD blower when the specifications require a three-phase fan blower.

Recommend approval of award to Vac-Con, Inc. as the lowest responsive, responsible bidder. Term shall be from date of award through September 30, 2019 with two (2) one (1) year renewal options.

Estimated initial expenditure not-to-exceed $1,086,900.00. Funding shall be encumbered from account AFFM513-06401 and executed by Purchase Order(s).

Attachments: Recommendation Memo, Bid Tabulation, Rejection Letter, Terms & Conditions, Specifications

Analyst: _____ DAVID KLAGES

RESPECTFULLY SUBMITTED: _____ GREGORY PEASE, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: CRIS TONGOL, CHIEF OF FLEET MANAGEMENT DIVISION

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING _____ MEMBERS DISAPPROVING _____ DATE: _____

_____ _____ OTHER: _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED _____ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____

FINANCE AND ADMINSTRATION DEPARTMENT

FLEET MANAGEMENT DIVISION

Jacksonville

Where Florida Begins.

Date: June 6, 2019

To: Gregory Pease, Chief of Procurement Division

Thru: Cris Tongol, Chief of Fleet Management Division

From: David Hylazewski, Equipment Control Administrator

Re: Recommendation of award for SC-0482-19 Purchase of Three (3) Combination Sewer Cleaner Machines

Fleet Management Division is requesting approval to reject Environmental Products Group Inc., due to vendor not meeting specifications. Environmental Products bid a PD Blower and the specifications requires a three-phase fan blower.

Fleet Management Division is requesting approval of award to the lowest responsive, responsible bidder, Vac-Con Inc., for the purchase of (3) Combination Sewer Cleaner Machines. Period of Service is Date of Award through September 30, 2019, with two (2) one (1) year renewal options. Total amount of expenditure is $1,086,900.00.

AFFM513-06401 to be encumbered by Purchase Orders.

BID TABULATION

TITLE:	PURCHASE OF THREE COMBINATION SEWER CLEANER MACHINES			**ENVIRONMENTAL PRODUCTS GROUP, INC.**		**GREAT SOUTHERN EQUIPMENT**		**MAUDLIN INTERNATIONAL TRUCKS**		**TOM NEHL TRUCK COMPANY**		**VAC-CON, INC.**	
BID NO:	SC-0482-19												
OPEN DATE:	MAY 22, 2019												
ANALYST:	DAVID KLAGES												
NO. INVITED:	(5) **No. Received:** (5) **Other:** (0)												
RECORDED BY:	JOHN HERNANDEZ												
Item #	**Description**	**Est. Annual Quantity**	**Unit**	**Unit Price**	**Extended Price**	**Unit Price**	**Extended Price**	**Unit Price**	**Extended Price**	**Unit Price**	**Extended Price**	**Unit Price**	**Extended Price**
1	COMBINATION SEWER CLEANER - V312LHAE/1500	3	EA	No Bid	No Bid	No Bid	No Bid	No Bid	No Bid	$369,737.00	$1,109,211.00	$362,300.00	$1,086,900.00
1a	EQUIVALENT	3	EA	$327,820.00	$983,460.00	$379,768.00	$1,139,304.00	$363,253.00	$1,089,759.00	No Bid	No Bid	No Bid	No Bid
TOTAL BID (Line Item 1 <u>or</u> 1a):				**$983,460.00**		**$1,139,304.00**		**$1,089,759.00**		**$1,109,211.00**		**$1,086,900.00**	
TERMS:				0% Discount		No Response		0% Discount		0% Discount		0% Discount	
DELIVERY:				90 Business Days		180 Business Days		120 Business Days		120 Business Days		30 - 45 Business Days	
CONFLICT OF INTEREST STATEMENT:				Yes		Yes		Yes		Yes		Yes	
ADDENDUM 1:				Yes		Yes		Yes		Yes		Yes	
EQUIVALENT ITEM SPECIFICATIONS (IF APPLICABLE):				Yes		Yes		Yes		N/A		N/A	

NOTE: Environmental Products Group's bid did not meet the specifications

PROCUREMENT DIVISION

NOTIFICATION OF RECOMMENDED BID REJECTION

DATE: JUNE 10, 2019

VIA EMAIL: NCAUSEY@MYEPG.COM

BIDDER'S NAME: ENVIRONMENTAL PRODUCTS GROUP, INC.

ADDRESS: 2525 CLARCONA ROAD, APOPKA, FL 32703

CONTACT NAME: NICK CAUSEY

BID NO: SC-0482-19

TITLE: PURCHASE OF THREE COMBINATION SEWER CLEANER MACHINES

DATE OPENED: MAY 22, 2019

REASON FOR RECOMMENDED BID REJECTION: For being nonresponsive; specifically for submitting a bid that does not meet the required specifications (the specifications require a three-phase fan blower; EPG's "equivalent" equipment uses a PD blower).

IF YOU WISH TO PROTEST THE RECOMMENDED REJECTION OF THIS BID, PLEASE RESPOND IN ACCORDANCE WITH THE CITY OF JACKSONVILLE'S BID PROTEST PROCEDURES. THIS ACTION IS SCHEDULED FOR THE GENERAL GOVERNMENT AWARDS COMMITTEE MEETING ON **THURSDAY, JUNE 13, 2019 AT 1:00 PM**. DIRECT ALL PROTEST TO THE RESPECTIVE BUYER, EMAIL ADDRESS DKLAGES@COJ.NET.

BUYER'S SIGNATURE: _____
DAVID KLAGES, PURCHASING ANALYST

Klages, David

From: Klages, David
Sent: Monday, June 10, 2019 11:36 AM
To: 'Nick Causey'
Cc: Pease, Gregory; Laidler, Marilyn
Subject: SC-0482-19 Purchase of Three Combination Sewer Cleaner Machines - Bid Rejection
Attachments: Bid Rejection - Environmental Products Group.pdf

Importance: High

Good morning Nick. Please see the attached Bid Rejection letter for **SC-0482-19 Purchase of Three Combination Sewer Cleaner Machines**. Upon review of the specifications for the "equivalent" equipment proposed in your bid submittal, your bid was found to be non-responsive for not meeting the required specifications; specifically for proposing equipment that utilizes a PD blower rather than a three-phase fan blower.

If you have any questions, please feel free to call.

Sincerely,

David R. Klages
Purchasing Analyst
City of Jacksonville, Procurement Division
214 N. Hogan Street, Suite 800
Jacksonville, FL 32202
Phone: (904) 255 – 8813
Email: dklages@coj.net

CITY OF JACKSONVILLE

TERMS AND CONDITIONS

COMBINATION SEWER CLEANER

SCOPE
The Fleet Management Division of the City of Jacksonville, Florida is currently accepting bids to obtain source(s) of supply for the item(s)/service(s) as outlined in the bid documents provided. The purpose of this bid invitation is to obtain information about your firm and its ability to provide these items and to obtain pricing commitments for three (3) Combination Sewer Cleaner Machines per the specifications.

AWARD
Award will be **ALL or NONE** to the lowest responsive, responsible bidder. ALL awards are subject to the availability of funds.

TERM OF AGREEMENT
The term of this agreement is Date of Award through September 30, 2019, with two (2) one (1) year renewal options. Renewal Options may be exercised at the discretion of the City based on supplier performance and adherence to the terms and condition set forth in the bid documents.

STATE CONTRACTS
The City reserves the right to utilize contracts established by the State of Florida and or other governmental agencies for item(s)/service(s) covered under this bid. The City reserves the right to cancel this contract in whole or in part for such item(s)/service(s).

QUANTITIES
Quantities indicated reflect the estimated quantities to be purchased throughout the contract period and are subject to fluctuation in accordance with actual requirements. The City reserves the right to purchase more than the estimated quantities listed or not to make any purchase against this bid if it so deems necessary anytime during the contract period.

The City of Jacksonville reserves the right to add or delete items and options as necessary during the contract period.

ESCALATION/DE-ESCALATION
All pricing submitted shall remain firm for the initial term period. Upon renewal (if applicable), a supplier may submit in writing a request for price escalation/de-escalation for the percentage of change as listed in the Consumer Pricing Index (CPI) and/or documentation notifying of an industry wide increase. The City reserves the right to decline any price increase request.

PRICES
All unit prices shall include freight, delivery, and handling charges to the delivery location as outlined in the bid documents.

DELIVERY
Delivery will be made to 2581 Commonwealth Avenue, Jacksonville, FL 32254. A packing list shall accompany all shipments, which shall indicate, at a minimum, the following; purchase order number, item number and description, date of shipment, quantity ordered and shipped, unit prices, and unit of measure.

PICK UP AND RETURNS

The City reserves the right to return an order in whole or in part if the merchandise is not in compliance with the bid specifications. The City or its agencies will determine compliance with bid specifications. Pick up and returns will be made within forty-eight (48) hours of notification at no charge to the City or its agencies.

INVOICING

Invoices will be issued once supplies/services are delivered and/or rendered to the City of Jacksonville or its agencies. At a minimum, invoices must include; purchase order number, item number and description, date of shipment, quantity ordered and shipped, unit prices, unit of measure, and extended totals. Payment terms are Net 30 days. All original invoices shall be submitted to: Fleet Management, 2581 Commonwealth Avenue, Jacksonville, Florida 32254, Attn: David Hylazewski.

INSURANCE/INDEMNIFICATION

Each supplier shall maintain, for the entire term of this bid, current insurance coverage as stated in the bid documents. **All insurance certificates shall list the City of Jacksonville as an Additional Insured**. The awarded vendor will be required to submit the copy of insurance certificate within ten (10) days from date of receipt of award notice. Bid number should be listed on certificate.

SPECIFICATIONS

Combination Sewer Cleaner – V312LHAE/1500

1. **Vehicle Configuration**
    a. 114SD Conventional Chassis
    b. 2019 Model Year Specified
    c. Set forward Axle – Truck
    d. Straight Truck Provision
    e. LH Primary Steering Location

2. **General Service**
    a. Truck Configuration
    b. Domiciled, USA 50 States (Including California and Carb Opt-In States)
    c. Utility/Repair/Maintenance Service
    d. Utility Business Segment
    e. Liquid Bulk Commodity
    f. Terrain/Duty: 100% (All) of the time, in transit, is spent on paved roads
    g. Maximum 8% expected grade
    h. Smooth concrete or asphalt pavement – most severe in-transit(between sites) Road Service
    i. Freightliner SD vocational warranty
    j. Expected front axle(s) load: 20000.0 lbs
    k. Expected rear drive axles(s) Load: 46000.0 lbs
    l. Expected gross vehicle weight capacity: 66000.0 lbs

3. **Truck Service**
    a. Sewer/Industrial vacuum body.
    b. Expected truck body length: 0.0 ft
    c. Breaking-Expected cab to body clearance: 3.0 in

4. **Engine**
    a. Cum L9 370 HP @ 2000 RPM, 2100 Gov RPM, 1250 Lb/Ft@ 1400 RPM

5. **Electronic Parameters**
    a. 72 MPH Road speed limit
    b. Cruise control speed limit same as road speed limit
    c. PTO mode engine RPM limit, 1200 RPM
    d. PTO Mode throttle override – Limit to 1400 RPM
    e. PTO mode brake override – service brake applied
    f. PTORPM with cruise set switch – 1200 RPM
    g. PTO RPM with cruise resume Switch – 1200 RPM
    h. PTO Mode Cancel Vehicle Speed – 5 mph
    i. PTO Governor Ramp Rate – 200 RPM per second
    j. PTO Minimum RPM – 700
    k. Regen inhibit speed threshold – 5 mph

6. **Engine Equipment**
    a. 2016 Onboard diagnostics/2010 EPA/Carb/Final GHG17 Configuration
    b. 2008 Carb Emission certification – clean idle (includes 6x4 inch label on lower forward corner of driver door
    c. Standard oil pan
    d. Oil fill and dipstick located for enhanced service ability
    e. Side of hood air intake with Donaldson High capacity air cleaner with safety element, firewall mounted.
    f. DR 12V 160 Amp 28-SI quadramount pad alternator with remote battery volt sense.
    g. (2) Alliance model 1231XOE, group 31, 12 volt maintenance free 2250 CCA threaded stud batteries.
    h. Battery box frame mounted..
    i. Standard battery jumpers
    j. Single Battery Box frame Mounted LH side under cab.
    k. Wire ground return for battery cables with additional frame ground return
    l. Non-polished battery box cover

m. Positive load disconnect with cab mounted control switch with locking provision mounted outboard driver seat.
n. Positive and negative posts for jumpstart located on frame next to starter
o. Cummins turbocharged 1807 CFM Air compressor with internal safety valve.
p. Electronic engine integral shutdown protection system.
q. Cummins exhaust brake integral with variable geometry turbo with on/off dash switch.
r. RH outboard under step mounted horizontal after treatment system assembly with RH B-pillar mounted vertical tailpipe.
s. Engine aftertreatment device, automatic over the road regeneration and dash mounted regeneration request switch.
t. Integrated stack and B-Pillar pipe with minimum stack protrusion above cab.
u. RH Curved vertical tailpipe B-pillar mounted routed from step.
v. 6 gallon diesel exhaust fluid tank
w. 100 percent diesel exhaust fluid fill
x. Standard diesel exhaust fluid pump mounting
y. LH medium duty standard diesel exhaust fluid tank location.
z. Standard diesel exhaust fluid tank cap.
aa. Aluminum aftertreatment Device/muffler/tailpipe shield(s).
bb. Horton 2-speed drivemaster advantage polarextreme fan drive.
cc. Automatic fan control without dash switch, non-engine mounted.
dd. Cummins spin fuel filter
ee. Combination full flow/bypass oil filter
ff. Fleetguard plain coolant filter
gg. 1300 square inch aluminum radiator
hh. Antifreeze to -34F. oat (nitrite and silicate free) extended life coolant.
ii. Gats Blue Stripe coolant hoses or equivalent.
jj. Constant Tension Hose Clamps for Coolant Hoses.
kk. Radiator Drain Valve
ll. 1350 Adapter Flange for front PTO Provision.
mm. Electric Grid Air intake warmer.
nn. Delco 12V 38mt HD starter with integrated Magnetic swithch.

7. Transmission

a. Allision 3000 RDS Automatic transmission with PTO Provision

8. Transmission Equipment

a. Allision Vocational package 223 available on 3000/4000 product families with vocational models rds, HS, MH and TRV.
b. Allision Vocational Rating for On/Off highway applications available with all products families.
c. Primary mode gears, lowest gear 1, start gear 1, highest gear 6, available for 3000/4000 product families only.
d. Secondary mode gears, lowest gear1 , start gear 1, highest gear 6, available for 3000/4000 product families only.
e. Primary shift schedule recommended by DTNA and Allison This defined by engine and vocational usage.
f. Secondary shift schedule recommended by DTNA and Allison,. This defined by engine and vocational usage.
g. Primary shift speed recommended by DTNA and Allison. This defined by engine and vocational usage.
h. Secondary shift speed recommended by DTNA and Allison. This defined by engine and vocational usage.
i. Load based shift schedule and vehicle acceleration control. Recommended by DTNA and Allison. This defined vocational usage.
j. Neutral at stop – Disabled, Fuelsense, Disabled.
k. Driver switch input – Default – No Switches.
l. Vehicle interface wiring connector without Blunt cuts, at end of frame.
m. Electronic Transmission customer access connector firewall mounted.
n. Customer installed Chelsea 277 series PTO.
o. PTO mounting, LH side of main transmission.
p. Magnetic plugs, engine drain, transmission drain, axle(s) fill and drain.
q. Push button electronic shift control, dash mounted.

r. Transmission prognostics – enabled 2013.
s. Water to oil transmission cooler, in radiator end tank.
t. Transmission oil check and fill with electronic oil level check.
u. Synthetic transmission fluid (TES-205 compliant)

9. Front Axle and Equipment

a. Detriot DA-F-20, 0-5 20,000# FL1 71.0 KPI/3.74 Drop single front axle.
b. Meritor 165 x 6 Q+ Case spider cam front brakes, double anchor, fabricated shoes.
c. Non-asbestos front brake lining.
d. Conmet Cast iron front brake drums
e. Front brake dust shields.
f. Front oil seals.
g. Vented front hub caps with window, center and side plugs – oil.
h. Standard spindle nuts for all axles.
i. Meritor automatic front slack adjusters.
j. Standard king pin bushings.
k. TRW THP-60 power steering with RCH45 auxiliary gear.
l. Power steering pump.
m. 4 quart power steering reservoir.
n. Oil/Air power steering cooler mounted above front closing crossmember
o. Organic SAE 80/90 Front Axle Lube.

10. Front Suspension

a. 20,000# Flat leaf front suspension
b. Graphite bronze bushings with seals – front suspension
c. Front Shock Absorbers.

11. Rear Axle and Equipment

a. RT-46-160 46,000# R-Series Tandem Rear Axle
b. 5.63 Rear Axle Ratio
c. Iron Rear Axle Carrier with Standard Axle Housing.
d. MXL 176T Meritor Extended lube main driveline with half round yokes.
e. MXL 17T Meritor extended lube interaxle driveline with half round yokes.
f. (1) Interaxle lock valve for Tandem or tridem drive axles.
g. Blinking lamp with each interaxle lock switch, interaxle unlock default with ignition off.
h. Meritor 16.5x7 Q+Cast spider cam rear brakes, double anchor, fabricated shoes.
i. Non-Asbestos rear brake lining.
j. Standard brake chamber location.
k. Conmet cast iron rear brake drums.
l. Rear Brake Dust Shields.
m. Rear oil seals.
n. Bendix eversure longstroke 2-drive axles spring parking chambers.
o. Haldex automatic rear slack adjusters.
p. Organic SAE 90/80 rear axle lube.
q. Standard rear axle breather(s).

12. Rear Suspension

a. Hendrickson RT463 @ 46,000# Rear Suspension.
b. Hendrickson RT/RTE 7.19" Saddle.
c. Standard Axle seats in axle clamp group.
d. 54 inch axle spacing.
e. Steel Beams and Bronze center bushings with bar pin adjustable end connections.
f. Fore/AFT control rods.

13. Brake System

a. Wabso 4S/4M ABS without traction control
b. Reinforced nylon, fabric brad and wire braid chassis air lines.
c. Fiber braid parking brake hose.
d. Standard brake system valves.
e. Standard air system pressure protection system

f. Standard US front brakes valve with ABS vales in rails with RH heat shielding.
g. Relay valve with 5-8 Psi crack pressure, no rear proportioning valve.
h. BW AD-9 brake line air dryer with heater.
i. Air dryer mounted outboard on RH rail back of cab, maximum 20 inches back of cab protrusion.
j. (1) 12 inch steel air tank mounted above frame back of cab, 20 inches maximum back of cab protrusion.
k. Pull cables on all air reservoir(s).

14. Trailer Connections

a. Upgraded chassis multiplexing unit.

15. Wheelbase & Frame

a. 6700MM (264 inch) wheelbase.
b. 11/32x3-1/2 x 10 15/16 inch steel frame (8/73MMx277.8MM/0.344x1094 inch) 120KSI
c. ¼ inch (6.25 MM) C-Channel inner frame reinforcement.
d. 2275MM (90 inch) Rear frame overhang.
e. Frame overhang range: 81 inch to 90 inch.
f. 12 inch integral front frame extension.
g. Calc'd Back of cab to rear susp C/L (CA): 180.54 inch
h. Calculated effective back of ab to rear suspension C/L (CA): 177.54 in.
i. Calc'd Frame Length – overall: 393.69.
j. Calc'd space available for deck plate: 180.54 in.
k. Calculated frame space LH Side: 115.77 in.
l. Calculated Frame space RH Side: 148.38 in.
m. Square end of frame.
n. Front closing crossmember.
o. Standard weight engine crossmember.
p. Standard midship #1 crossmember(s)
q. Standard rearmost crossmember.
r. Standard suspension crossmember.

16. Chassis Equipment

a. Omit front bumper, customer installed special bumper, does not comply with FMCSR 393.203.
b. Fender and front of hood mounted front mud flaps.
c. Grade 8 threaded hex headed frame fasteners installed with bolt heads on outside of frame.

17. Fuel Tanks

a. 100 Gallon/378 litter aluminum fuel tank – LH
b. 25 inch diameter fuel tanks(s).
c. Plain aluminum/painted steel fuel/hydraulic tank(s) with painted bands.
d. Fuel tank(s) forward
e. Plain step finish.
f. Fuel tank cap(s).
g. Detroit Fuel/Water separator with water in fuel sensor, hand primer and 12 volt preheater.
h. Equiflo inboard fuel system.
i. No natural gas vehicle fuel tank vent line/stack.
j. Auxiliary fuel supply and return orts located on LH fuel tank.
k. High temperature reinforced nylon fuel line.
l. Fuel cooler.

18. Tires

a. Continental HTC1 425/65R22.5 20 ply radial front tires.
b. Continental HDR2 11R22.5 14 ply radial rear tires.

19. Hubs

a. Conmet preset plus premium iron front Hubs.
b. Conmet preset plus premium iron rear hubs.

20. Wheels

a. Alcoa LVL one 82462x22.5x12.25 10 hub pilot 4.68 inset 10 hand aluminum disc front wheels.

b. Alcoa LVL one 882567x22.5x8.25 10-hub pilot aluminum disc rear wheels

21. Cab Exterior

a. 114 inch BBC Flat roof aluminum conventional cab.
b. Air cab mounting.
c. Nonremovable bugscreen mounted behind grille
d. Front fenders
e. 3 ½ inch fender extensions.
f. LH and RH grab handles
g. Bright finish radiator shell/hood bezel
h. Stationary black grille with bright accents.
i. Chrome hood mounted air intake grille
j. Fiberglass hood with access hatches.
k. Single 14 inch round Hadley air horn under LH deck.
l. Dual Electric Horns.
m. Single Horn shield.
n. Door locks and ignition switch keyed the same with (4) keys.
o. Rear License Plate Mount End of Frame.
p. Halogen composite headlamps with bright bezels.
q. LED Aerodynamic Marker Lights.
r. Daytime running lights – low beam only.
s. Grote #54332 LED stop/tail/turn lights grommet mounted with separate grote #62401 LED backup lights.
t. Standard front turn signal lamps.
u. Duval west coast molded-in color mirrors.
v. Door mounted mirrors.
w. 102 inch equipment width.
x. LH and RH 8 inch molded-in color convex mirrors mounted under primary mirrors.
y. Standard side/rear reflectors.
z. RH Aftertreatment system cab access with polished diamond plate cover.
aa. 63x14 inch tinted rear window.
bb. Tinted door glass LH and RH with tinted non-operating wing windows.
cc. Manual door window regulators.
dd. Tinted windshield
ee. 8 liter windshield washer reservoir, cab mounted, without fluid level indicator.

22. Cab Interior

a. Opal gray vinyl interior
b. Molded Plastic door panel
c. Black mats with single insulation.
d. Dash mounted ash trays an lighter.
e. Forward Roof Mounted console with upper storage compartments with netting.
f. In dash storage bin.
g. (2) cup holders LH and RH dash.
h. Gray/Charcoal flat dash.
i. Smart switch expansion module.
j. Heater, defroster and air conditioner.
k. Standard HVAC ducting.
l. Main HVAC controls with recirculation switch.
m. Standard Heater Plumbing.
n. Denso heavy duty air conditioner compressor.
o. Binary control, R-134A.
p. Standard insulation.
q. Solid-state circuit protection and Fuses.
r. 12V negative ground electrical system.
s. Dome light with 3-way switch activated by LH 7 RH doors.
t. Cab door latches with manual door locks.
u. (1) 12 volt power supply in dash.
v. Basic high back air suspension driver seat with mechanical lumbar and integrated cushion extension.
w. Basic high back air suspension passenger seat with mechanical lumbar and integrated cushion extension.

x. LH and RH integral door panel armrests.
y. Vinyl with vinyl insert driver seat.
z. Vinyl with vinyl insert passenger seat.
aa. Black seat belts.
bb. Fixed steering column
cc. 4-spoke 18 inch (450mm) steering wheel.
dd. Driver and passenger interior sun visors.

23. Instruments & Controls

a. Gray driver instrument panel.
b. Gray center instrument panel
c. Engine remote interface with park brake and neutral interlocks.
d. Black gauge bezels.
e. Low air pressure indicator light and audible alarm.
f. 2 inch primary and secondary air pressure gauges.
g. Dash mounted air restriction indicator with graduations.
h. Preco 1040 87 DB to 112 DB automatic self-adjusting backup alarm.
i. Electronic cruise control with switches in LH switch panel.
j. Key operated ignition switch and integral start position: 4 position off/run/start/accessory.
k. Manual remote engine stop/start with PTO re-engage.
l. ICU3S, 132x48 display diagnostics, 28 LED warning lamps and data linked.
m. Heavy duty onboard diagnostics interface connector located below LH dash.
n. 2 inch electric fuel gauge.
o. Engine remote interface with increment/decrement.
p. Engine remote interface connector at back of cab.
q. Prewire package for Vac-Con control module and chassis interface.
r. Electrical engine coolant temperature gauge.
s. 2 inch transmission oil temperature gauge.
t. Engine and tip hour meters integral within driver display.
u. (1) dash mounted PTO switch with indicator lamp-park brake and neutral interlock for customer installed PTO>
v. Electric engine oil pressure gauge.
w. AM/FM/WB world tuner radio with Bluetooth and SUB and auxiliary inputs, J1939.
x. Dash mounted Radio.
y. (2) Radio speakers in Cab.
z. AM/FM antenna mounted on forward LH roof.
aa. Electronic MPH speedometer with secondary KPH scale, without odometer.
bb. Standard vehicle speed sensor.
cc. Electronic 2000 RPM tachometer.
dd. No vehicle performance monitor.
ee. Ignition switch controlled engine stop with control mounted at firewall.
ff. Digital voltage display integral with driver display.
gg. Single electric windshield wiper motor with display.
hh. Marker light switch integral with headlight switch.
ii. One valve parking brake system with dash valve control autoneutral and warning indicator.
jj. Self-canceling turn signal switch with dimmer, washer/wiper and hazard in handle.
kk. Integral electronic turn signal flasher with hazard lamps overriding stop lamps.

24. Design

a. Paint: One solid color.

25. Color

a. Cab Color A: L006EB White Elite BC, Black, High solids polyurethane Chassis, Standard E Coat/Undercoating.

26. Certification/Compliance

a. U.S. FMVSS Certification, except sales cabs and Glider kits.

27. Weight Summary

a. Front Weight: 8622 lbs.

b. Rear weight: 8478 lbs.
c. Total Weight: 17,100 lbs.

28. **Extended Warranty**
   a. Towing: 2 years/unlimited miles/KM extended towing coverage $550 cap fex applies.

SPECIFICATIONS – COMBINATION SEWER CLEANER

COMPLY

Indicate: Yes or No

GENERAL

Yes **No**

The machine is capable of removing stones, grit, grease, sludge and other debris from sanitary sewer and/or storm drain lines by the flushing action of high-pressure water. The high-pressure sewer cleaner operates independent of the vacuum system without changing the engine RPM.

The machine includes an air conveying vacuum system to provide for the simultaneous removal of the debris flushed to the manhole by the high-pressure water system or for the removal of debris from sewers, sumps, catch basins, digesters, wet wells, bar screens, etc.

The machine is capable of being operated by one person, with all operating controls for high-pressure water pump, hose reel, and vacuum, located at the front of the machine for safety.

BODY

Yes **No**

Storage body has a minimum usable liquid capacity of 12 cubic yards. The debris body shall be round for maximum strength and constructed of 3/16 inch ASTM A242 Corten A steel for enhanced corrosion resistance.

The rear door shall be flat for maximum strength, hydraulically controlled, sealed by 4 individual hydraulic cylinder locks, hinged at the top with low profile and adjustable style hinges maintaining a 12' maximum overall height. There shall be a 6" diameter liquid drain valve, butterfly, and screen weldment inside for removing excess liquids. Drain will have 10 feet of 6 inch layflat hose.

The rear door shall be supplied with a debris deflector shield located inside the debris tank. A rear door safety prop shall be provided.

Dual steel weldments with stainless steel screen 8" x 28" each providing up to 1200 square inches of added filtration for the vacuum system shall be provided inside the debris tank. These weldments shall be removable and require no cutting or welding.

A double acting power up/power down hydraulic scissors lift mechanism will be provided to raise body to a minimum 50 degree angle. The debris body will have a fixed pivot point and not require any additional sub-frames. The unit shall be able to dump into a 60" tall container. The scissors lift mechanism shall be designed to support a minimum of 24 inches of the debris tank width to provide stability and when dumping on uneven ground

Dump controls are located on curbside mid-ship of the unit, well forward of the dumping area for operator safety. A manual override system is provided in case of system failure.

An internal polyethylene float device with external indicator is supplied to show when body is loaded to capacity.

AUTOMATIC VACUUM BREAKER

Yes **No**

The automatic vacuum breaker assembly is located inside the body.

The automatic vacuum breaker assembly shall be controlled by an electric over hydraulic circuit. The entire system shall be replaceable via a bolt on assembly. The assembly shall consist of a 12" inlet and two 8" ports that provide air flow to the vacuum system.

A full indication activates an automatic vacuum breaker shut down system that completely shuts down 100 percent of the airflow to the vacuum system to prevent overfilling and wastewater discharge into the atmosphere.

The vacuum breaker system is automatically activated (closed) when the parking brake system is released to eliminate carryover during transit.

The system is controlled/activated, at the front hose reel control station. This enables the operator to pick up large debris with boom and place debris on the road surface. This system can be used for safety in the event suction must be shut off in case of an emergency.

SPECIFICATIONS – COMBINATION SEWER CLEANER

CENTRIFUGAL COMPRESSOR (FAN DESIGN) **Yes** **No**

Unit will have an AeroboostTM 3 stage vacuum compressor consisting of improved air routing to more efficiently convey air. The AeroboostTM compressor will be capable of 4500 CFM through a 2" orifice and over 200" column of water. The AeroboostTM blower will be mounted curbside for ease of maintenance. The vacuum system will incorporate a 25" diameter cyclonic separator with a 10" inlet to aid in material separation and a removable canister fitted with an externally mounted handle so the operator does not have to touch the material during cleaning. The operator can easily dispose of any material that enters the cyclone. A bolt-on replaceable hopper will be located at the bottom of the cyclonic separator and can be easily replaced should any wear occur. The cyclone shall be mounted on the driver's side of the unit for ease of maintenance during dumping.

The compressor is driven by the chassis engine via a closed loop hydrostatic system using a variable high volume piston pump and motor. The high volume displacement pump shall provide the same vacuum performance at 30% lower engine rpm. The lower operating rpm shall reduce fuel consumption by as much as 40%. This system shall include a heat exchanger for extreme ambient conditions and to maintain the pump suction oil temp at 160 deg. F. max. The heat exchanger shall be protected by a 30-micron filter and cold weather by pass valve. Hydrostatic loop filtration shall be accomplished by a 10 Beta micron return filter and a 10-micron Absolute (no bypass) charge filter.

To maximize long term durability by reducing the load on one side of the compressor, the compressor shaft shall extend through the compressor and shall be additional stabilized by using two high speed bearings, one at each side of the shaft.

A means of starting, stopping and varying the vacuum suction from operator station at the front of the machine is provided.

Unit must be capable of vacuuming under water 16.6' (200") without air induction. A manometer/vacuum test may be required to demonstrate the system performance.

VACUUM PICK UP HOSE **Yes** **No**

The vacuum pick up hose shall be front loading, attached at the front of the machine in order to provide ease of positioning the machine over the manhole, as well as afford maximum safety for the operator.

The 8" hose will be mounted on a boom that will provide a minimum of 18' vertical lift utilizing dual hydraulic cylinder and 230 degree of boom rotation powered hydraulically for non-interrupted smooth movement.

The boom will be powered by an electric over hydraulic system: up/down by dual lift cylinders. The right/left movements shall be hydraulic via worm gear rotation.

The boom shall hydraulically telescope a minimum of 10 ft. forward from the operator's station. The height of the vacuum tube shall not change while the boom is being telescoped. A manual override system shall be provided for right/left, and up/down functions in case of system failure.

Control of the boom is by means of a joystick control at the operator's station, requiring no cables at operator's feet for boom operation. A 6-way remote pendant station is also supplied. A manual override system shall be provided for right/left, and up/down functions in case of system failure.

8 inch diameter pipe extensions with clamps will be provided and carried on the truck as follows:

1 6-1/2' Catch Basin Nozzle

1 6' Aluminum Pipe Extension

1 5' Aluminum Pipe Extension

1 3' Aluminum Pipe Extension

WATER SUPPLY **Yes** **No**

The water tanks shall have a minimum usable capacity of 1500 U.S. gallons.

The water tanks shall be constructed of non-corrosive, non-metallic, durable, cross-linked polyethylene to eliminate rust, corrosion, and stress cracking.

The water tanks shall be mounted at and below the truck frame level to provide a low center of gravity for truck stability.

A 2-1/2 inch diameter x 25 feet long hydrant hose with hydrant wrench is supplied on the unit.

SPECIFICATIONS – COMBINATION SEWER CLEANER

An anti-siphon fill device is installed on the unit.

Inspection ports shall be provided to fill or to add chemicals to the water system.

A sight gauge to indicate water level is located within sight of the operator station.

The water tanks are protected by a minimum of 11 gauge steel plating mounted below the water tanks for protection against road hazards when unit travels over the road, off the road or to landfills.

AUXILARY ENGINE (WATER PUMP DRIVE ENGINE) **Yes** **No**

6.8 Liter, (415 CID) (10)-Cylinder, V-10, 222HP at 3200RPM/360 ft. lbs. at 3200RPM.

HIGH-PRESSURE WATER PUMP **Yes** **No**

The high pressure water pump shall be rated to deliver smooth continuous pressure and flow through the entire flow range of the pump. The high pressure water pump shall have smooth continuous flow for both the high pressure system and the hand gun system.

A continuous duty flow of 80 g.p.m. and 2500 p.s.i. shall be provided.

High-pressure relief valves are provided for both the high-pressure system and hand gun system.

The high-pressure water pump operates independently of the vacuum system, and is powered by the auxiliary engine via clutchless, direct dual powerband drive system.

The water pump is capable of running dry.

Controls for starting and stopping the water pump and to vary the flow and pressure shall be at the front hose reel operator's station.

The high-pressure water pump is equipped with a cold weather drain valve. The valve allows the operator to completely drain the high-pressure pump.

HOSE REEL ASSEMBLY **Yes** **No**

The hose reel assembly is mounted on the front of the vehicle. The hose reel shall have a minimum of 30" inside diameter with a capacity of 600' x 1" hose. The hose reel is hydraulically powered in both directions by means of a double chain and sprocket drive. The controls for operating the motor shall have a flow control device to regulate the rotational speed of the reel in both directions. All hydraulic hoses are behind a steel housing to protect operator from hydraulic oil if a hose fails. The hydraulic motor, chain, and sprockets have a protective cover or are mounted on the radiator side of the hose reel for operator safety. The hose reel articulates 180 degrees to the driver's side allowing operator to work in any position through this arc. This allows greater flexibility in truck placement for manholes located in tough areas and provides greater safety to the operator. Reel extends beyond the width of unit for greater flexibility for positioning reel over offset manholes, catch basins, etc. A hydraulically controlled outrigger leg is supplied that comes in contact with the ground at any one position. A warning light is located in the cab to warn the operator that the outrigger leg is not in its transported position prior to moving the unit. A manual bypass system for the hose reel assembly is provided to manually pull the reel assembly away from its transported position. This feature allows operator to check fluids without starting engines.

JET HOSE **Yes** **No**

500' x 1" jet rodder hose will be supplied rated for 2500 psi working pressure and 6250 psi burst pressure.

A heavy duty hose guide with 25' of nylon rope will be provided.

Nozzles shall be hardened steel with replaceable ceramic orifices as follows: 1) Chisel head penetrator & 1) standard sanitary.

1 Grenade nozzle

MANHOLE CLEANING WATER SYSTEM (HAND GUN) **Yes** **No**

The high-pressure pump and independent water tank assembly supplied shall be used for manhole cleaning. A smooth continuous flow of 20 g.p.m. and pressure of 600 p.s.i. shall be provided for ease of operation. A hand gun pressure relief valve set at 600 p.s.i. shall be provided. One full functioning hand gun with on/off hand control, replaceable nozzle tip, 12 inch extension, adjustable spray and 50' x 1/2" hose with retractable reel will be

SPECIFICATIONS – COMBINATION SEWER CLEANER

provided.

The hand gun will attach to the system via a quick couple connection at the curbside of the unit. To avoid being coiled at the operator's station a hand gun holder will be provided at the front bumper.

HYDRAULIC SYSTEM AND LUBRICATION	Yes	No
The hydraulic system has a 55-gallon capacity.		
The hydraulic system shall incorporate a main shut off valve in case of hydraulic failure.		
The hydraulic system shall incorporate hydraulic pressure relief valves and pressure gauges for ease of trouble shooting and maintenance.		
The unit is equipped on the passenger side, mid-section of the module, with a permanent weatherproof white vinyl lubrication chart that points out lubrication points on the module and specifies what type of lubrication and hydraulic fluids are required. The chart also specifies the frequency of each lubrication point.		
Remote plumbed grease fittings are provided for the vacuum compressor, boom rotation, and water pump drive areas.		

ACCESSORIES TO BE INCLUDED IN TOTAL PRICE	Yes	No
1 Storage box behind the cab will be provided, 16" x 42" x 96"		
2 Roll out shelves for storage box behind cab		
2 Front Bumper Aluminum Tool Boxes 8" x 14" x 6"		
1 Steel Tool Box 48" x 24" x 24" Mounted Curbside		
1 Debris body power flush out system, 8 jets		
1 Heavy reinforced elbow "wear back"		
1 Rear splash guard, tank mounted (2 - 10 o'clock position)		
1 Pre-tank water filter (Y-type)		
1 2 1/2" water tank drain gate valve assembly		
1 Variable flow valve		
1 Low water alarm with light		
1 Rear axle load limit alarm		
1 Back up alarm		
1 Pulsation feature for water pump		
1 Hose footage counter, drivers side		
1 Rear mounted tow hooks		
1 Remote boom grease zerk assembly, (accessible from ground level)		
1 Remote debris tank grease zerk assembly (accessible from ground level)		
1 Aluminum Dual Roller Level Wind Guide		
1 Plastic engraved decals - adhesive type		
1 Water Cooler Rack		
1 Built in Body Prop		
1 Hinged style cone rack, deck mounted		
1 Stainless Steel Float Ball & Assembly		
1 Sliding Vertical Pipe Rack, Holds 5 Pipes		
Heavy Duty 1 1/4" Ball Valves		

LIGHTING	Yes	No
The entire module electrical system is vapor sealed to eliminate moisture damage.		
All wiring is color-coded, labeled and run in sealed terminal enclosures.		
All module circuits are protected by circuit breakers.		
Clearance lights and reflectors are furnished in accordance with D.O.T. requirements.		

SPECIFICATIONS – COMBINATION SEWER CLEANER

2 Mirror mounted LED strobe lights, with limb guards - Whelen LED Beacon with Whelen Branch Guard
1 LED strobe light with limb guard, rear debris tank door mounted - Whelen LED Beacon with Whelen Branch Guard
1 LED arrow board, rear debris tank door mounted - Whelen Traffic Arrow
1 Hand held spot light - LED
1 LED Boom Mounted Flood Light - Whelen Worklight

PAINT **Yes** **No**

Unit paint surface is shot blasted, primed and sanded prior to paint. Unit to be painted with PPG polyurethane RED paint.

Unit shall have reflective white side and boom stripes and rear door chevrons.

Chassis shall be painted manufacturer's standard white.

TRAINING AND MANUALS **Yes** **No**

Operator training will be conducted by a factory-trained representative for a minimum of one day at the time of delivery. 2 copies of the operating and maintenance manual for the sewer cleaner module shall be provided upon unit delivery.

MOUNTING AND DELIVERY **Yes** **No**

The unit described will be mounted on a truck chassis acceptable to the body manufacturer at the factory of the body manufacturer.

EXCEPTIONS AND DEVIATIONS:

Bidder shall fully explain every variance, exception, and/or deviation to the bid specifications. Additional sheets/lines may be added if required.

Klages, David

From: Kurtz, Sheryl
Sent: Tuesday, May 28, 2019 7:44 AM
To: Klages, David
Subject: FW: Vactor Combination Sewer Cleaner Machine Questions

Good Morning Dave,

Please ask the following question of Environmental Products.

Thank you,

Sheryl Kurtz
City of Jacksonville
Equipment Procurement Coordinator
Skurtz@coj.net
904-255-7465

From: Hylazewski, David
Sent: Friday, May 24, 2019 3:58 PM
To: Kurtz, Sheryl
Subject: Vactor Combination Sewer Cleaner Machine Questions

Sheryl

Could you please have David Klages ask Environmental Products Group the questions below that Public Works would like to know about their equivalent bid Combination Sewer Cleaner Machine?

1. Is the Vactor blower a Fan or PD?
2. If it's a Fan blower how many stage does it have?
3. Is the Vactor capable of vacuuming under water 16.6' (200") without air induction?
4. What size is the vacuum pickup hose and how many degrees of boom rotation does it have?
5. Does the Vactor come with two engines or single engine design?
6. Can the high pressure water pump deliver a smooth and continuous pressure flow through the entire flow range of the pump?
7.Are all the accessories listed in the specificaton included in the bid price?
8. Is the warning lighting package listed in the specifications included in the bid price?
9. Does the Vactor come paint red as the listed in the specafications ?

Thanks,

David Hylazewski
Equipment Control Administrator
City Of Jacksonville
Fleet Management Division
2581 Commonwealth Ave
Jacksonville, FL 32254
(904) 255-7470 Phone

(904) 509-8088 Cell
(904) 381-4607 Fax

Klages, David

From:	Nick Causey <ncausey@myEPG.com>
Sent:	Tuesday, May 28, 2019 1:56 PM
To:	Klages, David
Cc:	Preacher, Erik; Kurtz, Sheryl; Hylazewski, David
Subject:	Re: SC-0482-19 Purchase of Three Combination Sewer Cleaner Machines - Questions about Your Proposed Equipment
Attachments:	SC-0482-19 Response to Questions .pdf; 05-07-15-GGAC-Agenda.pdf
Importance:	High

EXTERNAL EMAIL: This email originated from a non-COJ email address. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hi David,

Please see the responses to the questions below in the attachment. If you have any additional questions or concerns, please feel free to call or write. Thank you!

Thank You,

Nick Causey | East Coast Regional Sales
Environmental Products Group, Inc.
c: 904.537.8799 | **o:** 407.798.0004 | **www.myEPG.com**

From: "Klages, David" <DKlages@coj.net>
Date: Tuesday, May 28, 2019 at 8:20 AM
To: Nick Causey <ncausey@myEPG.com>
Cc: "Preacher, Erik" <ErikP@coj.net>, "Kurtz, Sheryl" <SKURTZ@coj.net>, David Hylazewski <DavidHY@coj.net>
Subject: SC-0482-19 Purchase of Three Combination Sewer Cleaner Machines - Questions about Your Proposed Equipment

Good morning Nick. Staff from the Public Works Dept. is in the process of reviewing your bid submittal for **SC-0482-19 Purchase of Three Combination Sewer Cleaner Machines** and asked me to relay the following questions to you. Would you please respond as soon as possible?

1. Is the Vactor blower a Fan or PD?
2. If it's a Fan blower how many stages does it have?
3. Is the Vactor capable of vacuuming under water 16.6' (200") without air induction?
4. What size is the vacuum pickup hose and how many degrees of boom rotation does it have?
5. Does the Vactor come with two engines or single engine design?
6. Can the high pressure water pump deliver a smooth and continuous pressure flow through the entire flow range of the pump?

7. Are all the accessories listed in the specification included in the bid price?
8. Is the warning lighting package listed in the specifications included in the bid price?
9. Does the Vactor come painted red as the listed in the specifications ?

If you have any questions, please feel free to call.

Thank you,

David R. Klages
Purchasing Analyst
City of Jacksonville, Procurement Division
214 N. Hogan Street, Suite 800
Jacksonville, FL 32202
Phone: (904) 255 – 8813
Email: dklages@coj.net

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DEERFIELD BEACH
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P: 954.518.9923
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P: 404.693.9700
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CORPORATE
2525 Clarcona Rd.
Apopka, FL 32703
P: 407.798.0004
F: 407.798.0013

SC-0482-19 – Purchase of Three Combination Sewer Cleaner Machines
Attn: David Klages
Re: Response to Questions from Public Works Staff
May 25th, 2019

Please see the answers to your questions below in red. If you have any additional questions or concerns, please feel free to call or write. Thank you!

1. Is the Vactor blower a Fan or PD?

- **The blower system bid is a PD.**

2. If it's a Fan blower how many stages does it have?

- **Not Applicable.**

3. Is the Vactor capable of vacuuming under water 16.6' (200") without air induction?

- **Yes, it exceeds this requirement. The Roots 824-16" HG Blower is capable of vacuuming under water 18' (216") without air induction.**

4. What size is the vacuum pickup hose and how many degrees of boom rotation does it have?

- **The Vacuum pickup hose is 8" in diameter. The boom rotates 180 degrees so it will work in conjunction with the hose reel that rotates 270 degrees, allowing the operator to safely work off either side of the truck.**

5. Does the Vactor come with two engines or single engine design?

- **The Vactor is a Single Engine Design. Single engine operation reduces fuel consumption, emissions, noise, and maintenance. A second engine**

not only comes with a second set of maintenance requirements, but some even require a secondary fuel source, such as gasoline in lieu of diesel.

6. Can the high pressure water pump deliver a smooth and continuous pressure flow through the entire flow range of the pump?

- **Yes, the JetRodder Water Pump provides smooth continuous flows through its entire operating range (0-80 GPM and pressures up to 2,500).**

7. Are all the accessories listed in the specification included in the bid price?

- **Yes, all accessories listed in the specification are included in the bid price.**

8. Is the warning lighting package listed in the specifications included in the bid price?

- **Yes, all lights listed under the "Lighting" section, page 33 & 34 are included in the bid price.**

9. Does the Vactor come painted red as listed in the specifications?

- **Yes, it does. The City will be able to choose the specific paint code.**

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In closing, the department also attempted to purchase two Vactor Sewer Cleaners that match the specification bid by us (specifically with a Single Engine Design with a PD Blower) back in May of 2015 (see awards consent agenda attached). We met and discussed the preferred specification in great detail, quoted the truck per a bid contract, and it was sent to the awards committee multiple times for approval and purchase.

We were originally inclined to not participate in this bid as the specification appeared to be copied and pasted from a competitive manufacturer, however Addendum NO. One (1) stated that

"If the specifications for the equipment your company provides does not match the specifications listed in the bid documents, please submit pricing on the Bid Proposal Form under Item 1a Equivalent and provide the specifications for said equipment. City staff will review the specifications to determine if the proposed equivalent equipment will meet the needs of the City."

Unless something significant has changed with the City's stormwater infrastructure, the trucks bid will not only meet, but exceed the needs of the City. We have bid three Vactor Sewer Cleaners to the City of Jacksonville at a price level to gain the City as a valuable customer. We hope our bid is given fair consideration and is awarded. Thank you!

Nick Causey | East Coast Regional Sales
Environmental Products Group, Inc.
c: 904.537.8799 | **o:** 407.798.0004 | **www.myEPG.com**

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