



City of Grand Island

Tuesday, February 28, 2017

Council Session

Item G-18

#2017-62 - Approving Purchase of a VacAll AllJetVac for the Wastewater Division of the Public Works Department

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Marvin Strong PE, Wastewater Plant Engineer

Meeting: February 28, 2017

Subject: Approving Purchase of a VacAll AllJetVac for the Wastewater Division of the Public Works Department

Presenter(s): John Collins PE, Public Works Director

Background

The Wastewater Division of the Public Works Department budgeted for a VacAll AllJetVac to replace the current 1995 flusher truck and 1993 sewer vac (both will be disposed of when the new unit arrives). The single unit will be more efficient than the current two. Funds are available in the approved FY 2016/2017 budget for this purchase.

Discussion

This new unit has a lifetime guarantee on the water tank, debris body, and air separator, and is anticipated to be kept in our fleet for a number of years. The pumps are similar to others currently in use, making it more cost efficient to repair and maintain. The placement of the water pump is a key issue as well, which makes it easier for the City garage to perform maintenance on this piece of equipment.

To meet competitive bidding requirements, the Wastewater Division obtained contract pricing from the National Joint Powers Alliance Buying Group (NJPA) through Contract #022014-GRD issued to Gradall Industries, Inc. of New Philadelphia, Ohio. Such piece of equipment, with no exceptions, has a total net price of \$384,330.56. There are sufficient funds for this purchase in Account No. 53030054-85625.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council approve the purchase of a VacAll AllJetVac from Gradall Industries, Inc. of New Philadelphia, Ohio in the amount of \$384,330.56 for the Wastewater Division of the Public Works Department.

Sample Motion

Move to approve the resolution.

VACALL™
All Jet Vac



*Combination Jet/Vac Sewer Cleaners
with More Standard Advantages*

AllJetVac

Setting new value and performance standards in sewer line maintenance

Vacall AllJetVac combination jet/vac models introduce a new era of sewer cleaner technology. Designed, built and supported by Gradall Industries – known worldwide for uniquely versatile hydraulic excavators – today's Vacall AllJetVac models have more jetting power and more vacuum power. They are easier to operate and they present an exclusive collection of "green" advantages that save both money and the environment.

Manufactured in America to the highest American quality standards, Vacall AllJetVac machines are built for hard work and long machine life. AllJetVac models are all-business machines that governments and contractors can count on to efficiently and cost-effectively clear and maintain sewer lines on an emergency basis or on routine schedules. Delivering the industry's best ROI every single day.



Standard advantages set AllJetVac models apart from brands that like to charge extra

Both governments and contractors face the need to extract all of the value and service they possibly can from tight budgets. And that's where Vacall stands apart – and above – all other brands of combination sewer cleaners.

Because Vacall understands the industry, with over 40 years' experience. And we continually listen to our customers, designing newer and better machines that deliver a higher level of cost-effective vacuum and jetting performance. At the same time, we always strive to make our AllJetVac models easier to operate, simpler to maintain and fully able to withstand many years of hard use.



No other jet/vac sewer cleaner can match this collection of no-extra-cost advantages

- CAN bus smart controls ... our AllSmartFlow™ system is the industry's most advanced
- Lifetime warranty on optional galvanized debris bodies
- Lifetime warranty on aluminum water tanks
- A simplified operational system that's easy to learn, easy to use
- Single-engine design that saves money, service time and emissions
- A choice of front or rear mounted hose reels
- The industry's most powerful blend of jetting and vacuum forces



OPERATING PERFORMANCE AND EFFICIENCY...

POWER MODULE OPTIONS MATCH CUSTOMER NEEDS

AllJetVac models are available with a range of power module packages. Positive displacement blowers range from 16 inches to 27 inches hg of vacuum power. Jetting systems complement the cleaning power with capacity ranges from 50 to 120 gpm and pressures to 3000 psi.

TELESCOPING BOOM PUTS VACUUM FORCES WHERE THEY'RE NEEDED

The standard AllJetVac boom telescopes, lifts and swings with proportional controls, putting the vacuum power exactly where you need it. An 8-inch tube moves debris efficiently from nozzle to debris tank.

CYCLONE SEPARATOR COLLECTS DEBRIS

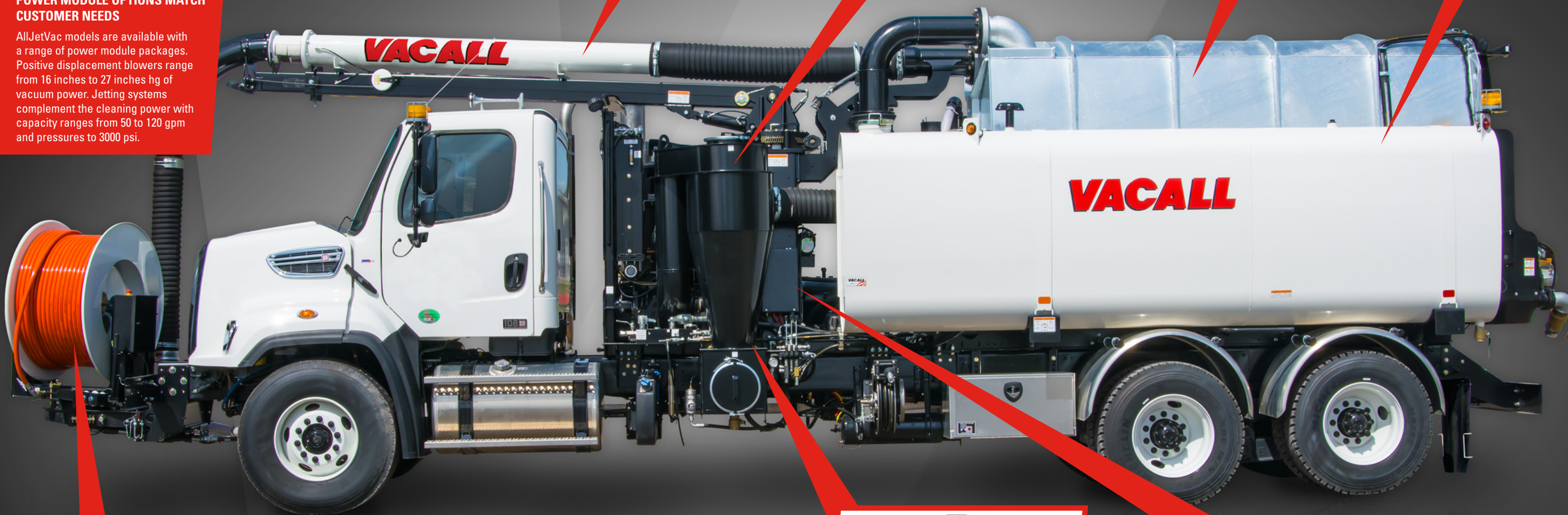
Dust and mist-laden material is spun out in the cyclone separator and collected in a drop box below. Cleanout doors are located above and below the cyclone.

OPTIONAL LIFETIME WARRANTIES ASSURE DEBRIS TANK DURABILITY

AllJetVac debris tanks are available with an optional galvanized finish that includes a lifetime warranty. A powder coat finish — standard on the outside and optional on the inside — helps tanks maintain a good, durable finish for many years. Tanks are oval-shaped with cylindrical sides, top and bottom, minimizing load shifting that is a problem with round tanks. Tanks also are mounted low to create a lower center of gravity. An optional flush system can be used to clean the entire interior of the tank without hand-spraying.

WATER TANKS HAVE LIFETIME WARRANTIES

Fabricated with high quality aluminum for extra strength, water tanks have interior baffles and are mounted above the rear fenders to avoid damage from road debris. The tank position also creates a positive head pressure to the water pump inlet.



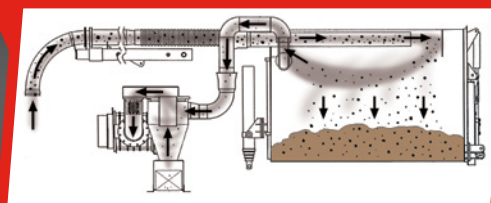
HOSE REEL ROTATES INTO POSITION

An axial pivoting hose reel is easily fixed into multiple positions for efficient operation. The unique, heavy-duty direct reel drive system consists of a rugged planetary gear box, driven by a hydraulic motor that incorporates a cross-port relief valve to cushion the system. With a dual latching system, there are no pin alignment problems common to other machines. Models are available with the operator station at the front or rear of the chassis. Popular options include auto level wind, Lexan® shields and hose tensioner.



ALLSMARTFLOW™ INTELLIGENT CONTROLS ARE STANDARD

CAN bus smart controls – the AllSmartFlow system – is standard on AllJetVac models and protected by a cabinet to avoid damage common to other models' levers and joysticks. A programmable color LCD display monitors engine performance, water flow and vacuum functions. Using a wired or wireless pendant, proportional controls allow the operator to command machine functions from an optimum vantage point.



HIGHLY EFFICIENT FILTRATION SYSTEM

The unique Vacall multi-stage vacuum filtration system has a simplified design to reduce maintenance, extend performance and increase working life. At the rear of the debris body, material is separated by a deflector plate. Remaining material particles and moisture are removed by a cyclone separator. The filtered air then passes through the blower, the silencer and the exhaust.

HIGH PRESSURE PUMP

The plunger-style triplex pump delivers a smooth, continuous flow of water without the need for an accumulator. The pump is capable of flows from 50 to 120 gpm and features run-dry prevention technology.

...DESIGNED INTO EVERY DETAIL

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Help yourself, help the environment

Vacall has the exclusive "Green That Works" package of advantages — features that save money, time and the environment.



It's a true sustainability advantage that includes:

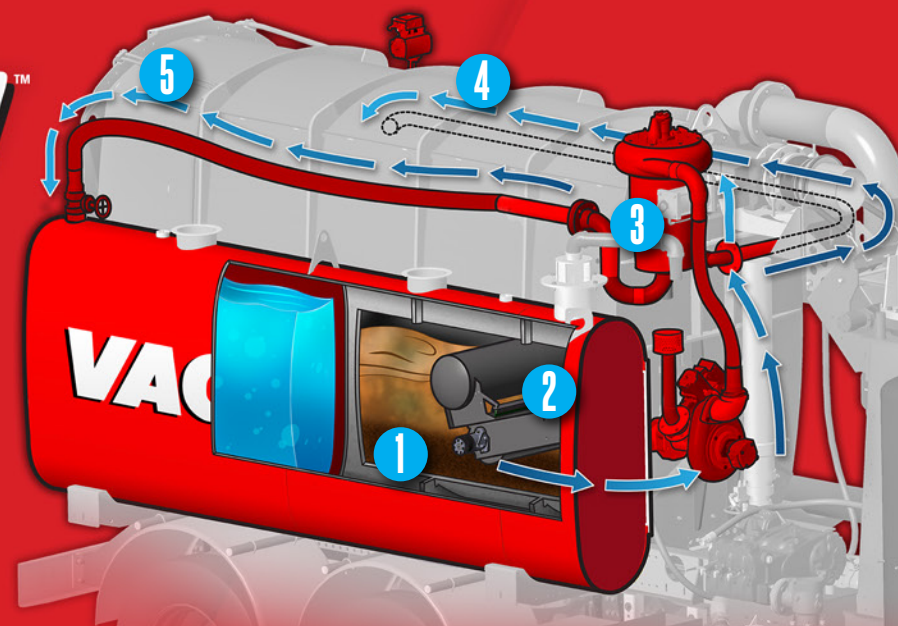
- A single, fuel-efficient engine
- Optional water recycling that saves water and refill trips
- Lifetime warranties on aluminum water tanks
- The industry's smartest smart controls, conserving water and reducing refill trips
- Hydro excavation package
- Wireless pendant controls



AllClean™ Water Recycling System

HOW IT WORKS

- 1 Debris and waste water undergo an initial sediment separation.
- 2 Floating V-Filtration screen, with back-flush self cleaning capability, filters the water.
- 3 High-speed centrifugal action removes remaining solids. Fine filter screen eliminates tiny particles down to 100 microns.
- 4 Solids and fine particles returned to debris tank via pressure regulating valve system.
- 5 Recouped waste water, up to 65% from vacuumed material, returned to the water tanks for reuse.



High efficiency standard with smart controls

The AllSmartFlow system helps operators improve their working efficiency with more precise adjustments and boom movements utilizing proportional controls.

A high-visibility programmable LCD display provides detailed information about engine performance, water flow and vacuum functions. In addition, the system has a fully proportional pendant – either wired or using wireless capability – designed for productive control while operators position themselves for safer, more productive machine views.

Over the road and around the job site, a full enclosure protects the AllSmartFlow control panel, eliminating the chance of damage to joysticks and levers.

SECURE, FUNCTIONAL TAILGATE SYSTEM

Secure, functional tailgate system. A simple, rugged tailgate design lets the operator use a single control and cylinder to open, close and lock the tailgate. Reverse slope lock wedges actually tighten under the weight of the load, and a D-ring gasket and shimmed hinge points create a superior, secure seal. A standard advantage is a two-port design with a cover plate.

Popular options include a sludge pump to remove material and a decant line to the front bumper.



SINGLE-ENGINE DESIGN ADVANTAGES

- SAVE ON FUEL** Protect yourself from rising prices by needing fuel for one engine instead of two.
- REDUCE EMISSIONS** Using one engine instead of two dramatically slashes harmful emissions.
- AVOID DOUBLE DOWNTIME** With just one engine, you spend half the service time on oil and filter changes or other routine maintenance procedures.
- LOWER PARTS INVENTORY** A single engine means there's no need to inventory special fuel and air filters or other routine service parts for a second engine.
- SAVE CHASSIS SPACE** Configure water tanks, debris tanks and other features without reserving extra space for a second engine.
- LESS WEIGHT** Without the weight of a second engine, you can easily add tanks and accessories to increase your productivity.
- KEEP IT QUIET** Face it ... operating one engine is quieter than operating two.

CHOOSE THE MODEL AND FEATURES YOU WANT

P Series

AllJetVac P Series combination sewer cleaner models use a positive displacement blower system that sets the industry standard for high performance and reliability. A pivoting hose and reel are mounted in the conventional location – at the front of the unit – where operators efficiently operate the vacuum and jetting forces to open clogged sewer lines and remove debris. Debris tank capacities range from six to 12 cubic yards while water tanks can have 1,000, 1,200 or 1,500-gallon capacities. The 8-foot, 6-inch extending boom is capable of a 180-degree rotation.



R Series

The hose and reel assembly is located at the rear on the AllJetVac R Series models, accommodating an operator preference for a quieter operation. Industry-leading vacuum and jetting forces clean and maintain sewer lines using a positive displacement blower design, efficiently controlled with the standard AllSmartFlow CAN bus system. Debris tank capacities range from 6 to 12 cubic yards while water tanks can have 1,000, 1,200 or 1,500-gallon capacities. The 8-foot, 6-inch extending boom is capable of a 270-degree rotation.

High Dump AJV

Equipped with an optional high dump system, these AllJetVac models allow the operator to raise the debris tank as much as 76 inches above ground level, and then shift it 21 inches to the back. Hydraulically operated, the high dump system enables an operator to dump material into dewatering or rolloff containers, helping to avoid spills or the need for dangerous ramps.



Built to last by Gradall

All Vacall machines are produced by Gradall Industries, Inc., with processes that meet ISO 9001-2008 standards. Located in New Philadelphia, Ohio, the Gradall manufacturing facilities encompass some 450,000 square feet with state-of-the-art features including robotic welding and powder-coat painting equipment. Before shipment, every Vacall machine undergoes rigorous testing to assure excellent machine quality and a long, reliable working life.

VACALL™

Gradall Industries, Inc. • 406 Mill Ave. SW, New Philadelphia, OH 44663
Phone 330-339-2211 • Toll-free 800-382-8302 • Fax 330-339-8468 • www.vacall.com



Designs, materials and specifications are subject to undergo constant improvement and are subject to change without notice and without incurring any liability on units already sold. Some machine photos may show options.

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RESOLUTION 2017-62

WHEREAS, the National Joint Powers Alliance Buying Group (NJPA) was utilized to secure competitive bids for one (1) New VacAll AllJetVac for Wastewater Division of the Public Works Department; and

WHEREAS, the NJPA Contract #022014-GRD was awarded to Gradall Industries, Inc. of New Philadelphia, Ohio; and

WHEREAS, the Public Works Department has recommended the purchase of a VacAll AllJetVac from Gradall Industries, Inc. for a purchase price of \$384,330.56; and

WHEREAS, the funding for such vehicle is provided in the 2016/2017 budget.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the purchase of a VacAll AllJetVac from Gradall Industries, Inc. of New Philadelphia, Ohio in the amount of \$384,330.56 is hereby approved.

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Adopted by the City Council of the City of Grand Island, Nebraska, February 28, 2017.

Jeremy L. Jensen, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
March 10, 2017	☐ City Attorney