



City of Belle Isle

1600 Nela Avenue, Belle Isle, FL 32809

Telephone: (407) 851-7730 * Fax: (407) 240-2222

REQUEST FOR PROPOSAL - 2024-05 Purchase of a New Vacuum Trailer

November 16, 2024

Solicitation Schedule

The CITY anticipates the following general timeline for this RFP, and the schedule may change as necessary.

Event	Date
Publish on Vendor Bid System – Demand Star	November 16, 2024
Pre-Bid Meeting on Site (Mandatory)-Location	NA
Deadline for Questions	November 21, 2024 - 10 days before the RFP due date. Send to pprice@belleislefl.gov
<u>Bid Submission Date</u> Either mailed or delivered to the City Clerk's office. Bids are opened on the due date at 3 pm.	Dec 2, 2024 – 3 pm

If you have any questions or need additional information, please email the City Clerk's Office at yquiceno@belleislefl.gov with RFP 2024-05 on the subject line.

Submit Bids (sealed) to:
City of Belle Isle – City Clerk's Office
1600 Nela Avenue
Belle Isle, FL 32809

Bids (1 original and 1 copy) must be sealed, mailed, or delivered. Write the Bid Number above and the Bid Opening Date in the lower left corner outside the Bid envelope. No faxed or emailed Bids will be considered. Bids received after the stated date and time will not be accepted and will be returned to the Bidder unopened.

Environmental Products Group, Inc.

\$ 135,768.00



ENVIRONMENTAL PRODUCTS GROUP

**City of Belle Isle
RFP 2024 - 05
November 21st, 2024**

TruVac TRXX 500 Vacuum Trailer

Environmental Products Florida would like to thank you for the opportunity to present the follow proposal on a new **TruVac TRXX 500 Vacuum Trailer**.

Environmental Products Group is the sole provider of TruVac Excavation Equipment in the state of Florida, as well as many other leading industry product lines including Elgin Street Sweepers, Vactor Sewer Cleaners, Envirosight Pipeline Inspection Cameras, PB Asphalt Pothole Patchers, Madvac Sweepers and Vacuums, Duratech Tree Chippers, and a host of parts, tools and accessories for all your needs.

Environmental Products Group prides itself on our local parts, service, and training capabilities. With multiple full-service locations throughout Florida, Georgia, and Memphis, Tennessee; including Vactor, Elgin, and Envirosight repair centers, extensive parts inventory, factory-trained technicians, mobile parts and service, rentals, turnkey maintenance packages, leasing options, and much more... we are ready to service your every need.

Thank you for your consideration.

Nick Causey | Territory Sales Manager

Environmental Products Group, Inc.

c: 904.537.8799 | o: 407.798.0004 | www.myEPG.com

Product Description

- TRXX-500 Vacuum Trailer with Roots Positive Displacement Vacuum Blower, 1,000 CFM, 500-Gallon Capacity Spoils Tank, 200-Gallons of Fresh Water

Standard Features

- 500 Gallon Spoils Tank
- 200 Gallon Fresh Water Tank
- 5 GPM @ 3000 PSI Water Pump
- Electric Clutch Operated Water Pump
- Floatball Shutoff System
- Hydraulic Rear Door Open/Close
- Hydraulic Dumping w/ Double Acting Hoist Cylinder
- Rear Door Safety Prop
- 3/8" x 50' Curbside Hose Reel
- 6" Anti-Siphon Water Tank Top Fill
- Digging Lance and Nozzle Package (5 GPM Rotator Nozzle & 4 GPM Straight Tip Single Jet Nozzle)
- Digging Lance, Vacuum Tube, and Nozzle Storage
- Washdown Gun/Storage
- Primary Micro-strainer Filter with Cleanout
- Dig Tube with Debris Size Limiter and Handles
- Power System Aluminum Shroud
- Curb Side Controls
- Lighted Control Screen with Lockable Cover
- Inspection Port at Rear
- Wireless Remote Control
- 4 Way Valve with Wireless Remote Operation for Unclog Feature
- Camlock Vacuum Fittings
- 49 HP Diesel Engine
- Wheel Chocks and Holder
- Pintle Trailer Hitch
- Standard Manual w/ Parts Cloud Access
- Local Training and Delivery

Additional Features

- Drain Valve – 6 O'clock Position w/ Pressure Offload Plug
- 4" x 25' Hose with Hose Ends
- Debris Body Vibrator
- Cyclone Filtration System

- Extendable Boom with 4" Boom Hose
- Passenger Over Fender Toolbox
- 1000 CFM Roots Blower
- Work Zone Lighting Includes Boom Rear Workstation & Side Work Lights
- Rear Directional Control LED Arrowstick
- Strobe Package
- Federal Signal Strobe Light Package
- Powered Tongue Jack for Trailer
- Vacuum Dig Tube Handle Assembly

Sales Price: \$135,768.00

Please don't hesitate to call with questions, or if you need any additional information. Thank you for your interest and the opportunity to earn your business.



Nick Causey
Territory Sales Manager
Environmental Products Group, Inc.
C: 904.537.8799 | O: 407.798.0004
W: www.myepg.com

LIMITED WARRANTY

Limited Warranty. Each machine manufactured by VACTOR MANUFACTURING (or, "the Company") is warranted against defects in material and workmanship for a period of 12 months, provided the machine is used in a normal and reasonable manner and in accordance with all operating, maintenance and safety instructions. In addition, certain machines and components of certain machines have extended warranties as set forth below. If sold to an end user, the applicable warranty period commences from the date of delivery to the end user. If used for rental purposes, the applicable warranty period commences from the date the machine is first made available for rental by the Company or its representative. This limited warranty may be enforced by any subsequent transferee during the warranty period. This limited warranty is the sole and exclusive warranty given by the Company.

STANDARD EXTENDED WARRANTIES (Total Warranty Duration)

2100 Series, iMPACT and Ramjet	10 years against metal water tank leakage due to corrosion. Nonmetallic water tanks are covered for 5 years against any factory defect in material or workmanship.
2100 Series, iMPACT and Guzzler only	5 years against leakage of debris tank, centrifugal compressor or fan housing due to rust-through.
2100 Series, iMPACT and Ramjet	2 years - Vactor Rodder Pump
ALL Models starting with 21-09X-XXXXX and beyond	2 year- Electrical & Electronics (excludes Chassis components)

Exclusive Remedy. Should any warranted product fail during the warranty period, the Company will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company's examination discloses to be defective in material or factory workmanship. Repairs or replacements are to be made at the selling Company's authorized dealer's or distributor's location or at other locations approved by the Company. In lieu of repair or replacement, the Company may elect, at its sole discretion, to refund the purchase price of any product deemed defective. The foregoing remedies shall be the sole and exclusive remedies of any party making a valid warranty claim.

This Limited Warranty shall not apply to (and the Company shall not be responsible for):

1. Major components or trade accessories that have a separate warranty from their original manufacturer, such as, but not limited to, trucks and truck chassis, engines, hydraulic pumps and motors, tires and batteries.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as, but not limited to, oils, fluids, vacuum hose, light bulbs, fuses and gaskets.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended, nor intended, or not in accordance with operating, maintenance or safety instructions provided by the Company.
5. Repairs, modifications or alterations without the express written consent of the Company, which in the Company's sole judgment, have adversely affected the machine's stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident or improper maintenance.

NOTE The use in the product of any part other than parts approved by the Company may invalidate this warranty. The Company reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make the Company liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

THIS WARRANTY SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND TO THE EXTENT PERMITTED, CONFERRED BY STATUTE, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, OR A WARRANTY AGAINST FAILURE OF ITS ESSENTIAL PURPOSE, ALL OF WHICH ARE DISCLAIMED.

This warranty is in lieu of all other obligations or liabilities, contractual and otherwise, on the part of the Company. For the avoidance of doubt, the Company shall not be liable for any indirect, special, incidental or consequential damages, including, but not limited to, loss of use or lost profits. The Company makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assume any other liability on behalf of the Company in connection with the sale, servicing or repair of any machine manufactured by the Company. Any legal action based hereon must be commenced within eighteen (18) months of the event or facts giving rise to such action.

The Company reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.



VACTOR MANUFACTURING
1621 S. Illinois Street
Streator, IL 61364





MAXIMUM PRODUCTIVITY CAPABILITY



TRUVAC.COM | PHONE: 800.573.1111 | 416.905.4740

EASY TO LEARN. EASY TO OPERATE. EASY TO MAINTAIN.

The TRUVAC TRXX vacuum excavator is a compact trailer with the power and features required at a variety of job sites to perform a wide range of tasks. This non-destructive hydro excavation trailer is portable and versatile and ideal for a broad range of applications.

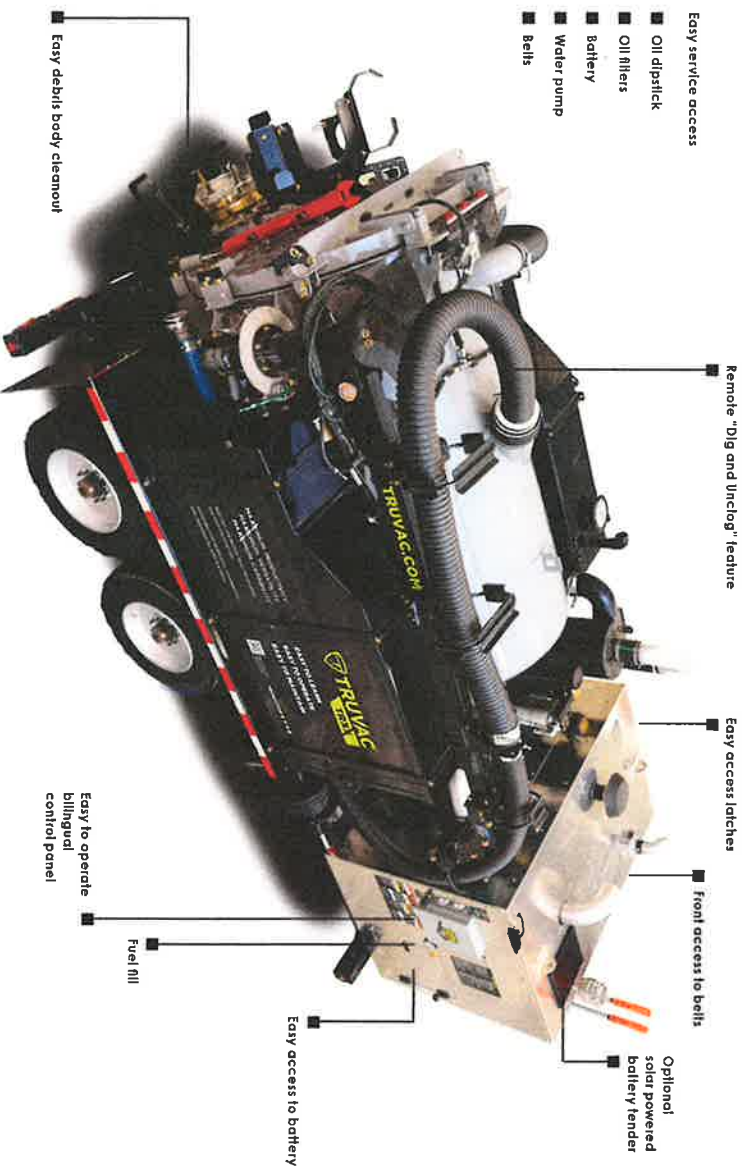
Our network of dealers and service centers have expansive coverage, to sell and service TRUVAC machines across the United States and Canada.

When it comes to quality engineering, innovation and reliable service, no other vacuum excavators can match TRUVAC. For more information about our products, services, and rental programs please visit TRUVAC.COM.

FEATURES

- 600 - 1,000 cfm blower
- 49-64 hp diesel Kubota engine
- Easy 1-2-3 operation
- Easy to maintain
- Easy access to key operating components
- Standard wireless remote with multi functions
- Wireless remote includes "Dig and Undo" function

- Easy service access
- Oil dipstick
- Oil fillers
- Battery
- Water pump
- Belts



Remote "Dig and Undo" feature

Easy access latches

front access to belts

Optional solar powered battery tender

Easy access to battery

Fuel fill

Easy to operate bilingual control panel

Easy debris body cleanout



EASY AS 1-2-3

Simple, clearly labeled, bilingual control panel

1. Start engine
2. Select lights
3. Engage dig mode



EASY TO MAINTAIN

- Easiest debris body cleanout in the industry
- Easy to maintain
- Easy access to operating components



Easy access to service panel



Easy access for maintenance items



Optional solar powered battery tender

TRUVAC 02/22 | 6/16 & 3/20/23

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THE TRAILER-MOUNTED VACUUM EXCAVATOR THAT WORKS WHERE YOU DIDN'T KNOW YOU COULD



VERSATILITY IN THE FIELD

The TRUVAC TRXX vacuum excavator has an extensive list of applications for municipal, commercial, and residential tasks.

UNDERGROUND UTILITY APPLICATIONS

- Pot-holing or daylighting to locate and verify underground utility locations
- Key-holing for horizontal directional drilling (HDD) installations
- HDD mud removal
- Slot trenching for new underground infrastructure installation

LANDSCAPING APPLICATIONS

- Planting trees
- Setting fence posts
- Removing gravel
- Removing mulch

PLUMBING APPLICATIONS

- Uncovering cleanout ports
- Installing cleanout port
- Septic tank lid uncovering
- Waterline repairs
- Service repair and replacement
- Lead water pipe replacement
- Emergency digs
- Slot trenching

PERFORMANCE

The TRUVAC TRXX vacuum excavator is available in two sizes, both are offered with optional cyclone filtration. Also available with a boom option.

TRUVAC is proud to offer custom solutions to meet your exact needs.

Built by the brand that developed vacuum excavation. Designed for municipal, commercial, and residential applications.

SERVICE & SUPPORT

The quality of our equipment is matched by the quality of our service and support after the sale.

Our experts are committed to helping you get the most from your vac equipment so you can focus on getting the job done right. Parts and service centers are ready to keep you up and running.

Expert consultation and training for optimal equipment use, safety and maintenance. Cloud-based access 24/7 to technical information, parts bulletins and warranty information.

	TRXX 500	TRXX 800
Performance Specifications		
Debris Capacity	500 gallon/1800 liters	800 gallon/3028 liters
Water Capacity (standard)	200 gallons / 757 liters	400 gallons / 1514 liters
Engine	49-64 hp Kubota	49-64 hp Kubota
Blower	900 / 1000 cfm	600 / 1000 cfm
Vacuum Rating	15" Hg	15" Hg
Water Pump Volume	5 gpm / 19 lpm	5 gpm / 19 lpm
Water Pump Pressure	3000 psi / 207 bar	3000 psi / 207 bar
Length	248 inches / 6.17 meters	269 inches / 6.83 meters
Width	88 inches / 2.48 meters	98 inches / 2.49 meters
Height	103 inches / 2.62 meters	103 inches / 2.62 meters
Weight (empty)	9,000 lbs / 4,133 kg	10,000 lbs / 4,535 kg
Trailer GVWR	14,000 lbs / 6,350 kg	20,000 lbs / 9,072 kg

City of Belle Isle
REQUEST FOR PROPOSALS
RFP #2024-05
Purchase of a New Vacuum Trailer

Notice is hereby given that the City of Belle Isle at 1600 Nela Avenue, Belle Isle, Florida 32809, will receive WRITTEN PROPOSAL SUBMITTALS from qualified vendors to supply a new vacuum trailer for the City of Belle Isle.

Request for Proposal documents is available beginning Saturday, November 16, 2024. The City's Solicitation information can be obtained on [DemandStar \(www.demandstar.com\)](https://www.demandstar.com), or on the City's website: www.belleislefl.gov, or from the City Clerk, Yolanda Quiceno yquiceno@belleislefl.gov, or call the City Clerk's office at (407) 851-7730.

Sealed Proposals must be received by the City Clerk at 1600 Nela Avenue, Belle Isle, Florida 32809, before the deadline on Monday, December 2, 2024, at 3:00 pm EST, at which time they will be publicly opened and read aloud. Late proposals will not be accepted and will be returned unopened.

Proposers shall submit one (1) unbound original and one (1) copy to the City Clerk at the time and date specified.

Sealed Proposals must be clearly marked "RFP #2024-05, Purchase of New Vacuum Trailer" Any questions regarding the completeness or substance of the Request for Proposals documents or the scope of services must be submitted in writing via email to the City Clerk, Yolanda Quiceno, at yquiceno@belleislefl.gov.

The City reserves the right to accept or reject any or all Proposals, in whole or in part, with or without cause, to waive any irregularities and technicalities, and to award the Contract on such coverage and terms it deems will best serve the interests of the City. The City of Belle Isle is an Affirmative Action/Equal Opportunity Provider and Employer. All qualified applicants will receive consideration without regard to race, color, religion, sex, age, disability, gender, or national origin. Small, minority, and women-owned business enterprises are encouraged to submit proposals.

Issue Date: November 16, 2024

The City of Belle Isle (CITY) seeks proposals from qualified vendors to purchase a new vacuum trailer for the City of Belle Isle.

Issuing Office

The City Clerk's Office is the issuing office for this Request for Proposal (RFP) and the point of contact for the City for all process and contract questions and protests.

City of Belle Isle
Yolanda Quiceno, City Clerk
1600 Nela Avenue
Belle Isle, FL 32809
(407) 851-7730
yquiceno@belleislefl.gov

Mandatory Walk Thru

A mandatory walk-thru, if not required for this request for proposal

Submission Date and Location

Each Proposer must provide one (1) unbound original and one (1) copy submitted to yquiceno@belleislefl.gov by 3:00 pm (EST) **Monday, December 2, 2024**.

Solicitation Documents and Changes (Addenda)

All solicitation documents may be viewed on DemandStar (www.demandstar.com), printed online from the CITY'S website at www.belleislefl.gov, or viewed onsite at the City Clerk's Office at the address listed above.

Packets received from other sources will not be considered valid documents. If you have any problems with the solicitation documents, please contact the City Clerk's Office listed above.

Any questions, clarifications, or revisions will be in writing and will be addressed and issued in addenda. CITY must receive any questions in writing prior to November 21, 2024.

Proposers are responsible for checking DemandStar (www.demandstar.com), the City's website for the issuance of any addenda prior to submitting a proposal. The Proposer is held responsible for all addenda/changes to the documents and may be considered non-responsive if their Proposal does not reflect those addenda/changes.

Protests

Any complaints or perceived inequities related to this RFP shall be made in writing and directed to the City Manager's Office at the address listed above.

Rejection of Proposals

The CITY reserves the right to cancel any and all proposals submitted. The CITY also reserves the right to waive or not waive any informalities or irregularities in proposal responses.

Modification / Withdrawal

Unless otherwise specified, modification of the Proposal will not be permitted; however, a proposer may withdraw his or her Proposal at any time prior to the scheduled closing time for receipt of Proposals; any proposer may withdraw his or her Proposal, either personally or by written request to the City Clerk's Office. Withdrawal of Proposal shall not disqualify the Proposer from submitting another Proposal provided the time for receipt of Proposals has not expired.

Cancellation

The CITY reserves the right to cancel the award of this Contract at any time before both parties execute the Contract if cancellation is deemed in the CITY'S best interest. In no event shall the CITY have any liability for the cancellation of the award.

Duration of Proposals

Proposals must be valid for at least 120 days and signed by an official authorized to bind the Proposer.

Public Record

All proposals submitted are the property of the CITY and are public records. All documents received by the CITY are subject to public disclosure after the CITY selects a contractor.

Incurring Costs

The CITY is not liable for any cost incurred by contractors prior to the execution of a contract.

Project Overview and Environment

The City of Belle Isle is a chartered city with a population of 8,000. It is located in southern Orange County, just northwest of Orlando International Airport. The City has a council-manager form of government, with the Mayor elected at large for a two-year term and seven City Council members elected at large for three-year terms.

Vacuum Trailer Specs

This specification intends to provide for the purchase of one (1) new and unused trailer-mounted vacuum excavator used for safely loosening and removing dirt from buried utility structures and pipes. The unit shall consist of a belt-driven high-pressure water pump and be equipped with a self-contained water supply as the source for the water pump system. The body dump, water pump, and vacuum controls shall be accessible on the vehicle's curbside. The module is to be trailer mounted. Please indicate all exceptions to this specification in an attached addendum with complete descriptions and explanations.

Debris Body

- The body shall be cylindrical, having a minimum useable capacity of 500 US Gallons.
- The debris storage body shall be constructed with a minimum 3/16" corrosion and abrasion-resistant Ex-Ten steel.
- Industrial style rear debris body door shall be flat and shall open and close hydraulically by cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. Door shall be unlocked, opened, closed, and locked by a failsafe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder, with all controls located at the operator's station, forward of the debris body, so operator is not subject to debris when dumping.
- Single 6" stainless steel ball float; cage shall be located in the tank outlet to the vacuum source to automatically stop the airflow from, the body.
- The float ball shall close when a debris body full load condition exists.
- A horizontally mounted micro-strainer with a removable filter screen and bottom drain port shall be provided prior to the blower inlet.
- An 8" inspection port on top of the debris body with platform access shall be provided.
- Hydraulic vibrator on the heavy structural channel on the underside of the body.

Water Tanks

- The water tanks shall be manufactured from a non-corrosive material to prevent rust while providing maximum strength.
- The water tanks shall be totally separate from the debris tanks and provide no structural support.
- The water tanks shall carry a 5-year warranty against corrosion or cracking.
- Fresh water shall enter the tanks through an in-line 6" air gap, all aluminum-covered anti-siphon device.
- Water level shall be displayed via a clear tube with float balls.
- For stability and safety, the water tank shall not elevate with debris body during the dump cycle.
- Water tank must be a certified metered capacity of 200 gallons.
- Certification shall be necessary upon delivery.
- 7/16" HOPE material shall be used for construction of the water tank

Vacuum / Drive System

- Vacuum shall be provided by a positive displacement rotary bi-lobe type blower driven via belt.
- The vacuum system provided must utilize a 15" Hg minimum positive displacement blower.
- The positive displacement blower is Roots URAi 59, capable of 1000 CFM@ 0" Hg.
- The system shall have a cyclonic separator with a 6" clean-out door.
- Must be at ground level for safe access.
- The filter house shall contain a removable & washable filter element. Must be ground level for safe access.
- The system shall have an electrically operated vacuum relief valve that can be controlled from the control panel and wireless remote. The relief valve shall be properly sized to disable the vacuum fully.
- The unit shall be equipped with a pressure relief valve set to 5 PSI for pressure offloading. Preventing the system damage from occurring.

Vacuum Broom

- All vacuum pipes must be connected to vacuum pick-up tubes and extension pipes by cam-lock quick clamps, which join the aluminum joints on the pipes.
- Vacuum system shall have a minimum of 4-inch clear opening from boom hose to blower.
- The boom shall be mounted at the curbside of the debris body with a minimum 180-degree rotation providing the best coverage of the potential working area on the curbside of the unit.
- The boom shall be powered hydraulically up, down, extend, and retract.

Water Pump/ Drive

- The rated design capacity of the high-pressure water pump is 5 GPM at 3000 psi.
- The high-pressure water pump shall be a belt driven with an electric clutch-operated triplex piston pump.
- The pump shall be able to be turned on or off via the wireless remote, eliminating the need for the operator to return to the control panel to engage or disengage the water system.
- The water pump must be able to fully vary the pressure and flow while maintaining a full vacuum.
- The handgun hose provided must have an operating pressure rating of 3,500 psi and a burst pressure of 14,500 psi. It must have a 3/8" inside diameter, be 50 feet in length, and be mounted on a manually retractable hose reel
- The water pump shall be mounted in a location that provides a fully flooded inlet condition of water. Water pump shall not be required to draw water uphill.

Control Panel

- The hydro excavator shall have all controls conveniently located on the curbside of the unit.
- The control panel shall be inside an aluminum box for protection from weather.
- Easily accessible and visible emergency stop button to full disable vacuum and hydraulics bringing the unit to a safe condition
- Equipment Protection
- Unit shall be equipment with blower overheat protection. If blower exceeds OEM recommended operating temperatures, the emergency stop system will be activated preventing blower damage.
- Unit shall be equipment with blower over-speed protection. If blower exceeds OEM recommended RPMs, the emergency stop system will be activated preventing blower damage.

Detailed Specifications

		COMPLY	YES	NO
1.0	INTENT			
1.01	The intent of this specification is to provide for the purchase or lease of one (1) new and unused trailer-mounted vacuum excavator used for safely loosening, -and removing dirt from buried utility structures and buried pipes. The unit shall consist of a belt-driven high-pressure water pump that is equipped with a self-contained water supply as the source for the water pump system. The body dump, water pump, and vacuum controls shall be accessible on the curbside of the vehicle. The module is to be trailer-mounted. Please indicate all exceptions to this specification in an attached addendum with complete descriptions and explanations.		✓	
1.02	This specification is not to be interpreted as restrictive but rather as a measure of the safety, quality, performance, and overall cost of ownership against which all equipment bids will be compared. In comparing proposals, consideration will be given to life cycle cost guarantees whereby the bidder shall provide all pertinent information to evaluate the long-term costs. The contract will be awarded for the product that best serves the interests of considering long-term maintenance cost, parts availability, product support and service cost, as well as guaranteed buyback value of the bidder's equipment. reserves the right to reject any or all bids or any part thereof and to waive any minor technicalities. Award shall be to the bidder showing most favorable life cycle costing while meeting the requirements of these specifications.		✓	
2.0	EQUIVALENT PRODUCT			
2.01	Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the City of Belle Isle.		✓	
2.02	Bidder shall demonstrate a reasonable likeness of the equipment being offered within a reasonable time of request. Equipment demonstrated shall be equipped with all accessories and components required in this specification to ascertain equivalence.		✓	
2.03	A blanket statement that the equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.		✓	
2.04	For quality assurance, the hydro excavator shall be produced in a facility with ISO 9001:2015 certification.		✓	
2.05	For environmental considerations, the hydro excavator shall be produced in a facility with ISO 14001:2015 certification.		✓	
3.0	BIDDER PREFERENCES			
3.01	To ensure adequate local availability of parts and competent service from experienced suppliers, bids are preferred from vendors who have sold and serviced at least 30 units equivalent to the specifications.		✓	

4.0	SERVICE AND SUPPORT		
4.01	The location of the warranty service center and the amount of inventory shall be noted, which may be verified and inspected.	✓	
4.02	Amount of OEM parts at this facility. <u>1.2 Million</u>	✓	
4.03	Years of servicing equipment being bid <u>22</u> Years <u>Since 2001</u>	✓	
4.04	Number of factory qualified service technicians. <u>10</u>		
5.0	GENERAL		
5.01	The specification herein states the minimum requirements. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. Any bid not prepared and submitted in accordance with the bid document and specification or any bid lacking sufficient technical literature to enable a reasonable determination of compliance with the specification will be considered "non-responsive" and grounds for rejection.	✓	
6.0	TRAILER FRAME		
6.01	The equipment shall be of modular design and consist of a water tank system and drive system.	✓	
6.02	A trailer frame shall be fabricated to the exact dimensions for mounting modular components.	✓	
6.03	All components of the module shall attach to the trailer frame.	✓	
6.04	The trailer is manufactured in compliance with NATM guidelines and conforms to all applicable U.S. Federal Motor Vehicle Safety Standards (FMVSS).	✓	
6.05	Trailer shall be equipped with an electric over hydraulic jack. Wired pendant controls shall be supplied and equipped with maQnetic mount.	✓	
7.0	DEBRIS BODY		
7.01	Efficiency of air movement through debris body will be measured for minimal restriction as measured by vacuum pressure gauge while operating blower at full speed. Pressure drop throughout entire system (from 8" hose inlet to blower inlet) including specified filtration and blower protection devices shall be no greater than 3" ha as measured at blower.	✓	
7.02	The body shall be cylindrical having a minimum useable capacity of 500 US Gallons.	✓	
7.03	The debris storage body shall be constructed with a minimum 3/16" corrosion and abrasion-resistant Ex-Ten steel.	✓	
7.04	The debris storage body shall have a minimum yield point of 50,000 PSI and a minimum tensile strength of 70,000 PSI.	✓	
7.05	The industrial-style rear debris body door shall be flat and shall open and close hydraulically with cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. The door shall be unlocked, opened, closed, and locked by a failsafe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder, with all controls located at the operator's station, forward of the debris body, so the operator is not subject to debris when dumping.	✓	
7.06	Rear door locking system shall be designed such that no hydraulic components are located internal to the debris body to prevent debris contamination and excessive wear of hydraulic components	✓	

7.07	Manual locks will not be permitted	✓	
7.08	Dual top-mounted hydraulic cylinders shall permit the operator to raise and lower the rear door	✓	
7.09	The rear door shall have a minimum 6" knife valve with a cam-foe. connector and a 125-drain hose	✓	
7.10	The 6" knife valve is to be located at the lower mid-portion of the rear door	✓	
7.11	The debris body shall be equipped with an inspection port for an accurate view of the level of debris.	✓	
7.12	Raising the body to a 50-degree angle and utilizing a forward-mounted, double-acting hydraulic dump cylinder will dump the debris body.	✓	
7.13	The body shall have a rear door hinged at the top and equipped with a replaceable neoprene-type seal. Adjustable for periodic compensation of door seal wear.	✓	
7.14	The rear door neoprene seal shall rise with the rear door removing the seal from the debris path for maximum life.	✓	
7.15	For optimal particulate separation, a vacuum shall be drawn from a separate port at the top of the debris body.	✓	
7.16	A single 6" stainless steel ball float cage shall be located in the tank outlet to the vacuum source to automatically stop the airflow from the body.	✓	
7.17	The float ball shall close when a full load condition exists for a debris body.	✓	
7.18	A rear door mounted vacuum hose storage for 4" x 25'	✓	
7.19	A horizontally mounted micro-strainer with a removable filter screen and bottom drain port shall be provided prior to the blower inlet.	✓	
7.20	An 8" inspection port on top of the debris body with platform access shall be provided.	✓	
7.21	Hydraulic vibrator on the heavy structural channel on the underside of the body.	✓	
8.0	WATER TANKS		
8.01	The water tanks shall be manufactured from a non-corrosive material to prevent rust and still provide maximum strength.	✓	
8.02	The water tanks shall be adequately vented and connected to provide complete filling.	✓	
8.03	The water tanks shall be totally separate from the debris tanks and provide no structural support.	✓	
8.04	The water tanks shall share no common walls with the debris tanks to prevent corrosion and excessive fatigue.	✓	
8.05	The water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.	✓	
8.06	The water tanks shall carry a 5-year warranty against corrosion or cracking.	✓	
8.07	Fresh water shall enter the tanks through an in-line 6" air gap, aluminum-covered anti-siphon device.	✓	
8.08	Water level shall be displayed via a clear tube with float balls.	✓	
8.09	For stability and safety, the water tank shall not elevate with a debris body during the dump cycle.	✓	
8.10	The water tank must have a certified metered capacity of 200 gallons. Certification shall be necessary upon delivery.	✓	
8.11	7/16" HOPE material shall be used for the construction of the water tank	✓	

9.0	VACUUM/VACUUM DRIVE SYSTEM		
9.01	Vacuum shall be provided by a positive displacement rotary bi-lobe type blower driven via the belt.	✓	
9.02	The vacuum system provided must utilize a 1511 Hg minimum positive displacement blower.	✓	
9.03	The positive displacement blower is to be Roots URAi 59, capable of 1000 CFM c@ O" Ha.	✓	
9.04	The positive displacement blower shall be matched with an exhaust silencer.	✓	
9.05	The system shall have a cyclonic separator with a 6" cleanout door. Must be at ground level for safe access.	✓	
9.06	The filter house shall contain a removable & washable filter element. Must be ground level for safe access.	✓	
9.07	vacuum shall be disabled by an electrically actuated 4-way valve.	✓	
9.08	The system shall have an electrically operated vacuum relief valve controllable from the control panel and a wireless remote. Relief valve shall be properly sized to fully disable vacuum.	✓	
9.09	The unit shall be equipped with a pressure relief valve set to 5 PS for pressure offloading. Preventing the system damage from occurring.	✓	
10.0	VACUUM BOOM SYSTEM		
10.01	All vacuum pipes shall be connected to vacuum pick-up tubes and extension pipes by camlock quick clamps to join the aluminum joints on pipes.	✓	
10.02	Vacuum system shall have a minimum of 4-inch clear opening from boom hose to blower.	✓	
10.03	The boom shall be mounted at the curbside of the debris body with a minimum 180-degree rotation providing the best coverage of the potential workina area on the curbside of the unit.	✓	
10.04	The boom shall be controlled via a load sence, electric-over-hydraulic system.	✓	
10.05	The boom shall be powered hydraulically up, down, extend, and retract.	✓	
10.06	All inlet hose and tubing shall have a minimum 4" inside diameter.	✓	
11.0	WATER PUMP AND DRIVE		
11.01	The rated design capacity of the high-pressure water pump is 5 GPM at 3000 osi.	✓	
11.02	The high-pressure water pump shall be a belt driven with an electric clutch-operated triplex Piston pump.	✓	
11.03	The pump shall have the capability of being turned on or off via the wireless remote, eliminating the need for the operator to return to the control panel to engage or disengage the water system.	✓	
11.04	The water pump must be able to fully vary the pressure and flow while maintaining full vacuum performance.	✓	
11.05	The water pump shall be able to deliver the correct flow without having to change components of the pump in the field.	✓	
11.06	The handgun hose provided must have an operating pressure rating of 3,500 psi and a burst pressure of 14,500 psi. It must have a 3/8" inside diameter, be 50 feet in length, and be mounted on a manually retractable hose reel	✓	

11.07	Water flow through the digging lance shall be controlled via a manual hand-gun trigger directly connected to the digging lance	✓	
11.08	Water pump shall be mounted in a location which provides a fully flooded inlet condition of water. Water pump shall not be required to draw water uphill.	✓	
12.0	NA	—	
13.0	NA	—	
14.0	CONTROL PANEL		
14.01	The hydro excavator shall have all controls conveniently located on the curbside of the unit.	✓	
14.02	The control panel shall be inside an aluminum box to protect it from the weather.	✓	
14.03	• The control panel shall include the following:	✓	
14.04	• Engine tachometer with hour-meter,	✓	
14.05	• circuit breakers	✓	
14.06	• Engine throttle control	✓	
14.07	• Water pump on/off control	✓	
14.08	• Unclog feature	✓	
14.09	• Vacuum enable/disable	✓	
14.10	• Easily accessible and visible emergency stop button to fully disable vacuum and hydraulics, bringing the unit to a safe condition	✓	
15.0	ELECTRICAL & SAFETY LIGHTING		
15.01	The entire system shall be vapor sealed to eliminate moisture damage, "Nema-4" type or equal.	✓	
15.02	All electrical connections shall be free of exposed wires or terminals and should not be painted. The paint process shall be completed prior to the wiring installation.	✓	
15.03	All wiring shall be color-coded and function-stamped for ease of troubleshooting. All electrical circuits shall be protected by circuit breakers for safety and ease of troubleshooting.	✓	
15.04	All other lights are required by State and Federal Laws.	✓	
15.05	The electrical system shall be of solid-state design, specifically designed for mobile applications. Industrial-style control systems will not be accepted.	✓	
15.06	Throttle control is to be completed electronically utilizing the chassis J1939 CAN system.	✓	
15.07	A manufactured wiring harness specifically designed for the unit shall be utilized. Wiring harness shall have a protective snake skin wrapping for durability. All wiring shall be offset from potential rub points with coated P-clamps.	✓	
15.08	Electrical components shall utilize their own dedicated enclosure and will be isolated from the water system cabinet.	✓	
15.09	Wireless remote must have a minimum ingress protection (IP) rating of 67	✓	
15.10	(3) LED work lights shall be provided to fully illuminate the operatin a area.	✓	
15.11	A four flashing LED amber lightinQ package shall be supplied with two flashing LED lights forward facing and 2 flashing LED lights outward facing.	✓	
15.12	Unit to utilize a non-destructive emergency stop method. E-Stops will open the electronic 4-way valve, throttle the engine to idle, turn off the water pump, and disable hydraulics. E-Stops are located at all HMI points, including the control panel and wireless remote.	✓	
15.13	Multi-Function Wireless Remote: Includes Boom functions (Brake Release, Raise, Lower, Extend, Retract) If equipped with a Powered boom E-Stop, Pump On/Off Vacuum Enable/Disable	✓	

15.14	A LED arrow stick shall be installed at the rear of the unit to provide directional control for approaching traffic.	✓	
16.0	HYDRAULIC SYSTEM		
16.01	The hydraulic reservoirs have a 20-gallon capacity with strainers on all suction lines.	✓	
16.02	The reservoir shall have an oil level sight gauge and an inspection hatch for maintenance.	✓	
16.03	The reservoir shall be a totally modular component that can easily be removed from its storage area.	✓	
16.04	A 5-micron spin-on type hydraulic filter shall be installed	✓	
16.05	The hydraulic system shall be designed so that no hydraulic lines or components are mounted in the internal airflow chambers (debris body, duct work, etc.) for reliability.	✓	
17.0	NA		
18.0	VACUUM TOOLS AND ACCESSORIES		
18.01	The basic vacuum tube package shall include the following:	✓	
18.02	• (1) 4" x 5" aluminum pipe	✓	
18.03	• (1) 4" x 5" aluminum dig tube pipe	✓	
18.04	The basic water pipe package shall include the following:	✓	
18.05	• (1) Digging package consisting of -	✓	
18.06	○ (4) 6'-0" steel digging wands w/quick disconnect and TRUVAC Shield quick connect protector	✓	
18.07	○ (1) 4'-0" steel digging wand w/quick disconnect and TRUVAC Shielded quick connect protector	✓	
18.08	○ (1) single Jet TRUVAC REVEAL 4 GPM Nozzle	✓	
18.09	○ (1) #4 TRUVAC HXX pose Rotator Nozzle	✓	
19.0	CHASSIS EQUIPMENT AND STORAGE		
19.01	Mud-flaps shall be located at the rear wheels.	✓	
19.02	(1) A 14" x 13" x 14" Aluminum Toolbox shall be installed curbside rear of the water tank.	✓	
20.0	EQUIPMENT PROTECTION		
20.01	Unit shall be equipment with blower overheat protection. If blower exceeds OEM recommended operating temperatures, the emergency stop system will be activated preventing blower damage.	✓	
20.02	Unit shall be equipment with blower over-speed protection. If blower exceeds OEM recommended RPMs, the emergency stop system will be activated preventing blower damage.	✓	
20.03	Unit shall be equipment with hydraulic overheat protection. If hydraulic oil exceeds OEM recommended operating temperatures, the emergency stop system will be activated, preventing blower damage.	✓	
20.04	The hydro excavator shall be designed to prevent simultaneous multiple control input for additional safety.	✓	

21.0	PAINT		
21.01	All metal surfaces shall be shot or sandblasted prior to painting.	✓	
21.02	All surfaces shall be cleaned using a phosphate saline wash process prior to painting.	✓	
21.03	The module shall have a minimum of two- and one-half mil of suitable primer coat applied.	✓	
21.04	The module shall have a minimum of two- and one-half mil finish paint applied.	✓	
21.05	All module components shall be painted prior to the assembly process.	✓	
21.06	All hose and fittings, as well as electrical wires and connections, shall not be painted	✓	



**ENVIRONMENTAL PRODUCTS
GROUP**

Request For Proposal – 2024-05

Prepared for:

City of Belle Isle



TruVac TRXX Vacuum Trailer w/ Positive Displacement Vacuum System & Boom

DEC 2 '24 AM 10:13

A handwritten signature in black ink, consisting of a stylized, cursive letter 'D' followed by a horizontal stroke.