



COUNTY OF SAN MATEO
Inter-Departmental Correspondence
Public Works and Parks



Date: March 8, 2013
Board Meeting Date: April 9, 2013
Special Notice / Hearing: None
Vote Required: Majority

To: Honorable Board of Supervisors
From: James C. Porter, Director of Public Works and Parks
Subject: Purchase of a Vactor 2100 Plus Combination Sewer Cleaning Truck

RECOMMENDATION:

Acting as the Governing Board of the ten County Sewer/Sanitation Districts adopt a Resolution waiving the Request for Proposals process and authorizing the purchasing agent to issue a purchase order for a Vactor 2100 Plus combination sewer cleaning truck, in an amount not to exceed \$470,000.

BACKGROUND:

The ten Sewer/Sanitation Districts (Districts) governed by your Board serve approximately 12,000 properties and finance the operation and maintenance of approximately 150 miles of sewer mains as well as the cost of treating the sewage collected by the Districts. Your Board approves sewer service rates and charges annually for each of the Districts. A portion of the sewer rates, beginning with the rates adopted for the FY 2007-08, included an allocation for the acquisition and replacement of equipment used to maintain and repair the sewer systems.

Modern sewer pipe cleaning technology involves equipment that utilizes a combination of high pressure water jetting followed by debris vacuuming. This method of cleaning and type of equipment has become the industry standard in sewer cleaning technology. The Districts do not have a combination sewer cleaning truck and use older technologies to clean the sewer pipes which involve more staff time, are more labor intensive, and are not as effective in removing tree roots, grease, and other debris collected in the pipes. A combination sewer cleaning truck was identified as priority equipment to obtain through previous rate setting processes. Through the annual collection of sewer charges, the Districts have accumulated sufficient funds to purchase a combination sewer cleaning truck.

The Districts, along with other sewer agencies, have been mandated by the State Water Resources Control Board (SWRQB) to decrease sanitary sewer overflows (SSO's). A

combination sewer cleaning truck will not only improve the efficiency in sewer pipe cleaning operations, but will also be very beneficial in reducing the likelihood of SSO's.

DISCUSSION:

District staff spends the majority of their time performing preventative maintenance activities such as cleaning sewer pipes to minimize blockages that may otherwise occur. A combination sewer cleaning truck will allow for increased efficiencies and improved cleaning results, which will contribute to decreasing SSO's.

Staff spent a considerable amount of time researching combination sewer cleaning trucks. This research included: interviewing other sewer agencies regarding their equipment and experiences, observing various combination sewer cleaning trucks on the job, participating in vendor demonstrations, researching available options (size of vehicle, size of water tank, size of waste tank, etc.), and analyzing the different types of equipment with the Districts' maintenance requirements.

The Department has selected the Vactor 2100 Plus as the combination sewer cleaning truck to purchase predominately due to the technology of the water pump. The Vactor 2100 Plus utilizes a Jet Rodder water pump, which is the same technology used in a Districts owned Vactor Hydro Flush truck. The Jet Rodder water pump on this truck has outlasted its projected useful life with minimal downtime. The performance of this pump versus the conventional triplex water pump used in all other Hydro Flush trucks and combination sewer cleaning trucks has been realized by the Districts and other sewer agencies. Additionally, this water pump is more fuel efficient than the other pumping systems.

Staff evaluated alternative fuel truck chassis' for the combination sewer cleaning truck and have found that manufacturers currently do not make a compressed natural gas engine with the minimum horsepower required by the combination sewer cleaning truck. Due to the operating method of the combination sewer cleaning truck, hybrid technology does not provide any benefit. The Vactor 2100 Plus provides 34% better fuel efficiency and also uses 10% less water than its predecessor, the Vactor 2100. The Vactor 2100 Plus consists of the items detailed in Attachment A. Owen Equipment Sales is the exclusive vendor for the manufacturer of the Vactor 2100 Plus in the Northern California region which includes San Mateo County.

County Counsel has reviewed and approved the Resolution as to form.

Your Board's approval to waive the competitive bid process and purchase a Vactor 2100 Plus combination sewer cleaning truck contributes to the Shared Vision 2025 outcome of a Healthy Community by providing improved equipment and technology to maintain the Districts' sewer facilities, help prevent sanitary sewer overflows, and provide improved methods for cleaning sanitary sewer overflows that may occur.

FISCAL IMPACT:

The total cost of the Vactor 2100 Plus is estimated to not exceed \$470,000, which includes applicable sales or use taxes (approximately \$38,000.00). Sufficient funds have been collected through previous annual sewer service charges for this purchase and funding has been budgeted as a fixed asset in the FY 2012-13 Districts' budgets.

There is no direct impact to the General Fund.

Attachment: Exhibit A

Exhibit A

1330West Nursery Road • Linthicum, Maryland 21090

www.mdindustrialtrucks.com

Washington D.C. 301.474-0022 • Baltimore 410.636-1255 • Fax 410.63-5734 • Toll
Free 800.481-5439



OWEN EQUIPMENT

1350 Vinci Ave

Sacramento Ca, 95838

March 11, 2013

San Mateo County Department of Public Works

555 County Center, 5th Floor

Redwood City, CA 94063

Attn: Norm Merrill, Public Works Technician

Per your request, Owen Equipment and Maryland Industrial Trucks are pleased to submit a GSA quote for a Vactor 2100 Plus, 15 yard, Combination Sewer Cleaner.

MODEL	PLUS PD COMBINATION SEWER CLEANERS	QTY	
16" HG BLOWER MACHINES		1	
2115P-16	PD Blower, 15 Yard Debris Body Capacity, 1300 Gallon Water Capacity/ <u>6X4 Chassis Only</u>	1	\$ 419,968.75

	STANDARDS INCLUDED:	1	
010PSTD	One Aluminum Toolbox (Weather Proof Lockable) 48x22X24 Located Passenger Side on Subframe. (46849MW) Std on 6x4 Models	1	STD
011PSTD	Aluminum Fenders	1	STD
012PSTD	Mud Flaps	1	STD
014PSTD	Electric/Hydraulic Four Way Boom	1	STD
016PSTD	Color Coded Sealed Electrical System	1	STD
018PSTD	Remote Pendant Control With 35' Cord	1	STD
019PSTD	Vansco-Electronic Package: Vactor Includes As Standard-Chassis Tach, Blower Tach, Operating Mode, PTO Mode, Hydraulic Oil Temp Shutdown, (E-STOP- Turns Off Rodder Pump, Turns Off PTO A And PTO B, Shuts Off Aux Engine (if equipped), Sets Chassis Throttle Back To Idle. Disables Vacuum Opens Vacuum Disable). E-Stop Located @ Front Reel Controls, Rear Reel Controls, Pendant, Wireless Control (if equipped) and At Dump Control Location Machine Functions and Diagnostics (Chassis and Module)	1	STD
020PSTD	Double Acting Dump Hoist Cylinder	1	STD
022PSTD	2" Y-Strainer With 25' Fill Hose	1	STD
025PSTD	Handgun Assy w/35' x 1/2" Hose With Quick Disconnects	1	STD
026PSTD	Ex-Ten Steel Cylindrical Debris Tank	1	STD
030PSTD	Flexible Hose Guide	1	STD
032PSTD	(3) Nozzles with Carbide Inserts with Nozzle Rack (1) 30° Sand, (1) 30° Sanitary, (1) 15° Penetrator	1	STD
045PSTD	Suction Tube Storage: Curbside 2 Pipe, Rear Door 2 Pipe	1	STD
046PSTD	1" Nozzle Pipe	1	STD
1001PSTD	Flat Rear Door w/Hydraulic Locks and Door Power Up,	1	STD

	Power Down, Open/Close Feature (NO GRABBER)		
1005PSTD	Dual 10" Stainless Steel Float Shut Off System/Rear Mounted In The Body	1	STD
1016PSTD	SS Microstrainer Prior to Blower	1	STD
1024PSTD	Debris Body Vacuum Relief System	1	STD
1031PSTD	Debris Deflector Plate	1	STD
1032PSTD	48" Dump Height (w/1000 Gallon Capacity)	1	STD
1033PSTD	60" Dump Height (w/1300 & 1500 Gallon Capacities)	1	STD
2022PSTD	Water Sight Gauge D/S & P/S	1	STD
2023PSTD	Liquid Float Level Indicator	1	STD
3008PSTD	Blower Air Shift Controls	1	STD
4000PSTD	180 Degree Rotation Non Telescopic Boom, Front Loading 8" Suction Hose	1	STD
4005PSTD	Boom Transport Cradle	1	STD
5001PSTD	60 GPM Variable Flow Water System	1	STD
5011PSTD	3" Y-Strainer @ Water Pump w/3" Drain Valve	1	STD
5012PSTD	Performance Package: (Hyd Variable Flow, Dual PTO's, Dual Hyd Pumps)	1	STD
5014PSTD	Water Relief Valve, 1"	1	STD
5015PSTD	Midship Handgun Coupling	1	STD
5019PSTD	AUXILIARY COOLING PACKAGE FOR CHASSIS ENGINE - System provides additional cooling for the chassis engine, by routing the chassis coolant through a heat exchanger. AVAILABLE ON IH MAXXFORCE ENGINES ONLY	1	STD
5022PSTD	Side Mounted Water Pump	1	STD
6000PSTD	400'x 1" Piranha Sewer Hose 2500 PSI	1	STD
6004PSTD	Hose Wind Guide (Dual Roller)	1	STD

6005PSTD	Hose Footage Counter Located Front Side Of Hose Reel-Mechanical	1	STD
6007PSTD	Hose Reel Manual Hyd Extend/Retract	1	STD
6009PSTD	Hose Reel Chain Cover (Full)	1	STD
6020PSTD	Hydraulic Extending 15" Hose Reel (800'x 1") Capacity	1	STD
7001PSTD	Tachometer - Chassis Engine w/Hourmeter	1	STD
7007PSTD	Tachometer & Hourmeter - Blower	1	STD
8000PSTD	Circuit Breakers	1	STD
8025PSTD	Led Lights, Clearance, <u>Back Up</u> , Stop,Tail & Turn	1	STD
9000PSTD	1+1 Vactor Manual-Partial Manual and CD Version	1	STD
9002PSTD	Tow Hooks, Front And Rear	1	STD
9003PSTD	Electronic Back-Up Alarm	1	STD
P110STD	Module Paint Wet-On-Wet (DuPont)	1	STD
S390ASTD	8" Vacuum Pipe Package	1	STD
S560STD	Emergency Flare Kit	1	STD
S590STD	Fire Extinguisher 5 Lbs.	1	STD
	DEBRIS TANK ACCESSORIES	1	
1003P	DEBRIS BODY FLUSH OUT SYSTEM	1	INCL.
1004P	DEBRIS BODY VACUUM RELIEF SYSTEM WITH DEBRIS BODY LOAD LIMIT ALARM	1	INCL.
1007P	6" BUTTERFLY VALVE/REAR DOOR LOCATED 3:00 POSITION WITH FIXED BASKET SCREEN	1	INCL.
1008PA	6" KNIFE VALVE/REAR DOOR WITH CAMLOC LOCATED 6:00 POSITION	1	INCL.
1009PA	SUBMERSIBLE TRASH PUMP/ EXTERNAL MOUNTED - FORWARD WALL W/ FLOATING ARM/2.5 X 25' DRAIN HOSE AND HOSE HOLDER	1	INCL.

1009PD	FULL WIDTH SWINGING PERFORATED DECANT SCREEN (A SCREEN DESIGNED TO COVER VALVES LOCATED AT 6:00 AND 3:00 POSITIONS ON REAR DOOR, AVAILABLE ON SINGLE VALVES ALSO)	1	INCL.
1012P	6" DECANT SYSTEM WITH AIR OPERATED KNIFE VALVE - FORWARD MOUNTED W/SCREEN (THIS MAY BE INSTALLED ON STREETSIDE WITH CERTAIN OPTION CONTENT)	1	INCL.
1015P	FOLDING PIPE RACK/CURBSIDE	1	INCL.
1015PA	FOLDING PIPE RACK/STREET SIDE	1	INCL.
1022P	SPLASH SHIELD - BOLTED TO BODY FLANGE REAR DOOR	1	INCL.
1023P	LUBE MANIFOLD (INCLUDES OPTIONS 1023PA)	1	INCL.
	WATER TANK ACCESSORIES	1	1
2001P	LOW WATER LIGHT AND ALARM AND WATER PUMP FLOW INDICATOR-GPM	1	INCL.
2003P	LAVAL WATER SEPARATOR (THIS IS A CENTRIFUGAL WATER SEPARATOR AT WATER TANK FILL)	1	INCL.
2011P	3" Y-STRAINER IN LIEU OF 2" AT WATER TANK FILL	1	INCL.
2017P	1500 GALLON WATER CAPACITY - ADDITIONAL ON 15 YD UNITS 6X4 CHASSIS REQUIRED, WILL HAVE 60" DUMP HEIGHT	1	INCL.
	VACUUM SYSTEM ACCESSORIES	1	1
3015PA	ELECTRONIC BLOWER ENGAGEMENT FRONT STATION CONTROL-FOR 3000 AND 4000 SERIES TRANSMISSIONS SERIES ALLISON.	1	INCL.
	BOOM ACCESSORIES	1	1
4014P	5 x 5 TELESCOPIC & EXTENDABLE BOOM (INCLUDES OPTION 4010P)	1	INCL.
4006P	JOYSTICK CONTROL FOR BOOM FUNCTION (1) - FRONT	1	INCL.

4010P	POST TYPE FRONT BUMPER BOOM STORAGE ILO STD (STANDARD WITH 5X5 BOOM OPTION)	1	INCL.
	HIGH PRESSURE WATER PUMP	1	1
5002PA	80 GPM/2500 PSI WATER SYSTEM - ILO STD WATER SYSTEM	1	INCL.
5010P	ACCUMULATOR SYSTEM FOR JET RODDER WATER SYSTEM	1	INCL.
5015P	FRONT AND REAR HANDGUN COUPLERS	1	INCL.
5021P	HYDRO EXCAVATION KIT WITH RETRACTABLE REEL, 50' X 3/8" HOSE, HANDGUN & PLUMBING (MUST HAVE OPTION #5010 ACCUMULATOR ON THE MACHINE)	1	INCL.
	HOSE REEL ACCESSORIES	1	1
	800' X 1" <u>PIRANHA ARMOR BELT</u> SEWER HOSE/2500 PSI (IN LIEU OF STD HOSE) <i>REQUIRES EXTRA CAPACITY REEL</i>	1	INCL.
6004PA	AUTOMATIC HOSE LEVEL WIND GUIDE	1	INCL.
6005PD	DIGITAL HOSE COUNTER/ENGLISH OR METRIC (STD FRONT MECHANICAL HOSE FOOTAGE COUNTER WILL MOVE TO REAR)	1	INCL.
6011P	HANDGUN HOSE REEL - SPRING RETRACTABLE REEL WITH 50' HOSE ASSEMBLY	1	INCL.
6019P	RODDER PUMP DRAIN VALVES (2)	1	INCL.
6020PC	TELESCOPING ROTATING HOSE REEL W/DUAL CONTROLS - CAPACITY: 800' X 1" AERO-QUIP	1	INCL.
	LIGHTS AND ACCESSORIES	1	1
8002P	HAND LIGHT WITH BUMPER PLUG	1	INCL.
8028P	LED WORK LIGHTS (2) ON ALL BOOMS	2	INCL.
8029PA	LED WORK LIGHT AT OPERATOR STATION (EACH)	1	INCL.
8029PB	LED WORK LIGHT @ HOSE REEL MANHOLE (EACH)	1	INCL.

8029PC	LED WORK LIGHT @ CURB SIDE	1	INCL.
8029PD	LED WORK LIGHT @ STREET SIDE	1	INCL.
9021PB	CAMERA SYSTEM, FRONT, REAR AND BOTH SIDES	1	INCL.
9023PA	SAFETY CONE STORAGE RACK/POST TYPE	2	INCL.
9024P	WATER COOLER STORAGE RACK	1	INCL.
	ALUMINUM TOOLBOXES AND TOOLTRAYS	1	1
Series 9070P	MOUNTED FRONT BUMPER & LONG HANDLE TOOL STORAGE Aluminum Toolboxes	1	1
9070PA	46849MQ/16x12x18 FRONT BUMPER TOOLBOXES (2) PD or FAN 4X2 & 6X4 CHASSIS 1000, 1300, 1500 GALLON CAPACITIES	1	INCL.
9070PB	LONG HANDLE TOOL STORAGE - (6) 2.5" PVC STORAGE TUBES LOCATED REAR SUBFRAME AND ON BOOM REST	1	INCL.
Series 9071P	<u>BEHIND CAB TOOLBOXES AND TOOL TRAYS</u> <u>CONTACT THE SALES DEPARTMENT FOR CORRECT CHASSIS LENGTH FOR THESE TOOLBOX AND TRAY SELECTIONS</u>	1	1
9071PA	46849NT/17W X 30H X 48D TOOLBOX PD or FAN 6X4 CHASSIS ONLY 1000, 1300, 1500 GALLON CAPACITIES Back of Cab Toolbox/Passenger Side Access - Exhaust position dependent	1	INCL.
9071PB	46849PT/14W x 8H x 48D TOOLTRAY PD or FAN 6X4 CHASSIS ONLY 1000, 1300, 1500 GALLON CAPACITIES Behind Cab Tool Tray Passenger Side Access	1	INCL.
9071PD	46849PF/17W x 30H x 48D TOOLBOX PD or FAN 6X4 CHASSIS ONLY 1000, 1300, 1500 GALLON CAPACITIES Behind Cab Tool Box Driver Side Access - Exhaust	1	INCL.

	position dependent		
Series 9072P	<u>MOUNTED DRIVER SIDE-CHASSIS FRAME</u> Aluminum Toolboxes	1	1
9072PA	46849JF/60W x 24H x 24D TOOLBOX PD or FAN 6X4 CHASSIS ONLY 1000, 1300 GALLON ONLY Located in Area Between Boom Pedestal to Boom Guard	1	INCL.
9072PB	46849DY/24W x 24H x 24D TOOLBOX PD or FAN 6X4 CHASSIS ONLY 1500 GALLON ONLY Located Rear of Boom Guard Area	1	INCL.
Series 9073P	<u>MOUNTED PASSENGER SIDE-CHASSIS FRAME</u> Aluminum Toolboxes	1	1
9073PA	46849MG/30W x 18H x 24D TOOLBOX PD or FAN 6X4 CHASSIS ONLY 1000, 1300, 1500 GALLON CAPACITIES Available When Both Handgun and HXX Reels Are Omitted.	1	INCL.
	PAINT	1	1
P112	MODULE - IMRON (PRIMER BASE)	1	INCL.
***	ENTER COLOR AND PAINT CODE	white	INCL.
ITEM #	SPECIAL OPTIONS/INSERT DESCRIPTIONS	1	INCL.
	owen Whelen LED light	1	INCL.
	collins lights up grade	1	INCL.
		1	INCL.
	Max tool Boxes	1	INCL.

	SPARE PARTS/ACCESSORIES	1	INCL.
S200	Additional 1" Leader Hose / Per Foot Cost	20	INCL.
S380	8" x 5' Aluminum Pipe Assy	6	INCL.
S410	8" Quick Clamp Assy	6	INCL.
CHASSIS		1	INCL.
ITEM #	PSFT410A-2013.0	1	INCL.
MAKE	Freightliner	1	INCL.
MODEL	114 SB	1	INCL.
		1	

GSA Price.....\$ 419,968.75

THIS QUOTE DOES NOT INCLUDE ANY TAXES OR REGISTRATION FEES. IF YOUR STATE REQUIRES TAXES ADDED TO THIS SALE, YOU ARE RESPONSIBLE FOR COMPUTING AND REMITTING THOSE TAXES TO THE APPROPRIATE PERSON

Estimated delivery is 270 days after receipt of order.

Price in quote includes delivery, dealers Pre-delivery Inspection and Training.

We appreciate the opportunity to quote you on your equipment requirements. If you have any questions regarding this quote or its contents, please do not hesitate to call or write.

Sincerely,



Tom Rockstroh

Phone # 410-636-1255

GSA Contract Administrator

GS-30F-1012H