

		<b>GapVax VHE Series Vacuum Hydro-Excavation Machine</b>		
<b>PROPOSAL DATE:</b>		<b>March 11, 2016</b>		
<b>PROPOSAL No:</b>		<b>165532</b>		
		<b>Section CHA - Chassis</b>		
	<b>Option Number</b>	<b>Description</b>		
<input checked="" type="checkbox"/>	CHA003	Customer Supplied Chassis - Freightliner 114SD		
		<b>Base Machine VHE Series Vacuum Hydro-Excavator</b>		
	<b>Model Number</b>	<b>Description</b>		
<input checked="" type="checkbox"/>	VHE1210	1200 Gallons Water / 10 Cubic Yards Debris - To be mounted on a Tandem Rear Axle Chassis		
		<i>Note: The GapVax VHE unit may exceed Federal Bridge allowable weights when loaded with water or debris and/or both water and debris combined. Consult factory prior to quoting.</i>		
		<b>Section A - Debris Body Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	3/16" ASTM A-572 Grade 50 Exten High Strength Steel Debris Tank		
	Std	1/4" Thick Steel longsills		
	Std	Top Loading Material backed Debris Deflection Body Inlet Cannon with 8" Cleanout on top and 6" Cleanout on rear		
	Std	Basket to hold 25' fire hose without need to disconnect always curbside front		
	Std.	Full opening rear tailgate with stainless steel "sure seal" rod and solid core gasket		
	Std	Four (4) Hydraulic rear door locks		
	Std	Dual (2) tailgate lift cylinders - open/close		
	Std.	Front mounted hoist cylinder, 55,000 lb. capacity, power up and down		
	Std.	Cam-Loc Fittings for Drain Hoses (per set) 6" - Includes Flanges		
	Std.	Dual 10" Stainless Steel Float Ball Shut off in debris tank		
	Std.	Debris Body Baffle Plate - Required with HX Package or 4,400 CFM Vacuum System		
	Std.	Five (5) year debris tank warranty against rust through, distortion, or cracking		
<input checked="" type="checkbox"/>	A2a	Drain Valve - Rear Door - 6" Knife with 15' of lay flat hose (for tailgate basket, add Option I20)		
<input checked="" type="checkbox"/>	A3	Level Indicator - Float Type mounted on tailgate with external pointer		

<input checked="" type="checkbox"/>	A13	Splash Shield - Rear Door		
<input checked="" type="checkbox"/>	A17	Stainless Steel 3/16" Tank Material Upgrade (per Cu. Yd.) (FET applies if applicable)		
<input checked="" type="checkbox"/>	A21	Ladder to Inspection Port Curbside up to cannon area		
<input checked="" type="checkbox"/>	A21b	Fold Down Ladder mounted over tube tray (lower section only, requires Option A21)		
<input checked="" type="checkbox"/>	A24a	Decant Valve mounted 1/2 way up - 6" Brass Knife Valve with handle		
<input checked="" type="checkbox"/>	A33	Three (3) tie-off anchors on top of body 6' apart		
<input checked="" type="checkbox"/>	A34b	Stainless Steel Debris Body Baffle Plate upgrade (unpainted carbon steel plate is standard)		
		<b>Section B - Water Tank Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	Water Tank 3/16" ASTM A240 Type 304L Stainless Steel		
	Std	4" High Anti-Siphon Ring with (4) 2-1/2" Holes		
	Std	Water tank level sight tube on curb side - clear plastic hose		
	Std	2" Drain Valve at Bottom of Water Tank		
	Std	3" Fill line with 2-1/2" Fire Hose Connection		
	Std	3" Water Strainer with stainless steel screen on water tank fill line		
	Std	3" Supply line to water pump to be mounted at rear of tank and as low as point possible		
	*	No baffles in water tank		
	Std.	Five (5) year water tank warranty against rust through, distortion, or cracking		
<input checked="" type="checkbox"/>	B20	Upgrade manway, anti-siphon, and all weld in fittings to <b>Stainless Steel</b>		
<input checked="" type="checkbox"/>	B23b	Baffles in the water tank - <b>Stainless Steel</b> (not available on 750 or 500 gallon water tanks)		
		<b>Section C - Vacuum System Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std.	True 8" diameter vacuum system		
	Std	Three (3) Vacuum Relief Valves set to crack at 16" HG		
	Std	Discharge silencer w/ rain cap and bottom drain		
	Std	Cyclone Separator with 20" chamber		
	Std.	Vacuum pump driven via Transfer Case rated 500 HP		
	Std.	Roots Type Vacuum Pump 3,500 CFM and 16" Hg		
	Std.	Noise and vibration dampening mounts on transfer case and vacuum pump		
	Std.	Stainless Steel Vee-Wire Filter Screen at Blower Inlet		
	Std.	Vacuum Relief Valve, 6" Air Operated		
<input checked="" type="checkbox"/>	C8	Upgrade to Roots Type Vacuum Pump 4,500 CFM and 18" Hg		
		<b>Section D - Water Pump System Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	3" Water Strainer with stainless steel screen on water tank fill line		
	Std.	Hand held Gun with Turbo Nozzle and Extension		
	Std.	Hydraulically driven water pump rated 5.5 GPM @ 2,500 PSI - Continuous Duty		
	Std.	Low Point Drain Valves - Water Lines		
	Std.	3" Ball Valve on Water Supply Line to the Water Pump		
<input checked="" type="checkbox"/>	D18	Air Purge System - HX System		
<input checked="" type="checkbox"/>	D23c	14 GPM / 4,000 PSI Direct Drive Pump upgrade for VHE		
<input checked="" type="checkbox"/>	D25	100' x 1/2" Hand Gun Reel, Retractable with 100' x 1/2" Hose		
<input checked="" type="checkbox"/>	D26	Cold Weather Recirculation - Auto Transmission - HX system only		
<input checked="" type="checkbox"/>	D28	Glycol Injection System - HX System		

<input checked="" type="checkbox"/>	D29c	400,000 BTU SS Horizontal Burner System - Rated to 4250 PSI - 12V DC (Does not include Options D18 or D28) (Not Available with Option C17) <b>Consult Factory</b>		
<input checked="" type="checkbox"/>	D30f	Stainless Steel Box <b>78"</b> Wide x 28" Deep x 24" Tall with <b>Wabasto</b> Heater (18,800 BTU)		
<input checked="" type="checkbox"/>	D31	Hose Reel and Regulator Mounted in Steel Box (72x28x24) (Requires Option D30d-f or other approved box) For Shaft Driven Water Pump, Option D31c is required *** Includes full width LED box light in 78" heated box ***		
<input checked="" type="checkbox"/>	D31c	Shaft Driven Water Pump heated box with Webasto style 7,000 BTU		
<input checked="" type="checkbox"/>	D32	Insulate hoses outside heated box (3" supply line not included) - HX System only		
<input checked="" type="checkbox"/>	D33	Insulate 72" heated box		
		<b>Section E - Boom Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	8" Front mounted Telescoping Tube-in-Tube Boom		
	Std	Nine (9) foot Telescoping Extension - 26' Reach from Center of Truck		
	Std.	180 Degree Power Rotation via Direct Hydraulic Gear (worm) Drive		
	Std.	Dual 4" Lift Cylinders		
	Std.	Cab Protection Rack		
	Std.	9" Rubber connector hose at articulation bearing		
	Std.	Bottom hose guide on center of hose reel articulate bearing		
<input checked="" type="checkbox"/>	E6	Remote Lube for Boom Lift and Rotation		
<input checked="" type="checkbox"/>	E7	3/16" Heavy Duty Boom Elbow with 6" Formed Channel Radius		
		<b>Section G- Controls, Gauges, Accessories Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	Cab Mounted Air Shift Control Panel for Blower, Water Pump, and Hydraulics (console at floor standard, International is dash mounted)		
	Std	Operator control panel to include: engine tachometer, vacuum pump hour meter, water pump hour meter, water pressure gauge, hydraulic pressure gauge, vacuum gauge, electric engine throttle control, and boom joystick		
	Std	Operators panel mounted on curbside of unit (Model VHE Only)		
	Std	3 Function remote pendant with 30 Feet of Cable - up/down, in/out, left/right for the boom		
	Std	Emergency stop de-energize water flow valve and break vacuum		
	Std **	If automatic transmission - interlock for throttle control		
<input checked="" type="checkbox"/>	G1	Low water level display on control panel		
<input checked="" type="checkbox"/>	G2	Low water level, high temp, & overspeed pump shut down (required for automatic transmissions)		
<input checked="" type="checkbox"/>	G4	High Level Debris Light & Alarm (Requires A3)		
<input checked="" type="checkbox"/>	G21b	Wireless Remote Control with Remote Water on/off Feature for HX hose reel (includes option G22, but not the boom pendant - Option G20)		
<input checked="" type="checkbox"/>	G30	Electrical Switch on control panel - High Level Debris Silence		
		<b>Section H - Lighting Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std.	Truck-Lite LED. Stop, Turn, and Tail Lights (cab not included)		
	Std.	Truck-Lite LED. Running (Marker) Lights (cab not included)		
	Std.	Upgrade Stop/Tail/Turn Light Box to Polished Stainless Steel		
<input checked="" type="checkbox"/>	H1	Strobe Beacon Light - Front - Whelen L10 Super LED		

<input checked="" type="checkbox"/>	H4	Rear Arrow Light - Halogen - 44" Wide Low Profile - Whelen TA837A		
<input checked="" type="checkbox"/>	H5	(1) Boom Work Light - Standard (Truck-Lite 80360)		
<input checked="" type="checkbox"/>	H6	(1) Rear Work Light - Standard (Truck-Lite 80360)		
<input checked="" type="checkbox"/>	H7	(1) Side of Truck / Pump Compartment Work Light (Truck-Lite 80360)		
<input checked="" type="checkbox"/>	H8c	Three Additional Work Light - Boom, Rear, Pump Compartment (Per Pair) Must Match with H5 or H6 or H7		
<input checked="" type="checkbox"/>	H9f	Upgrade to <b>LED</b> Work Lights ( <b>LHT022429</b> ) <b>THREE PAIR</b> Must Have Option H5 or H6 or H7 and must have Option H8c		
		<b>Section I - Storage, Tool Boxes, Enclosure Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	Two (2) Galvanized Steel Tube Trays mounted over TANDEM axles / tires - 10 ft long		
<input checked="" type="checkbox"/>	I6d	Upgrade Std. Painted Steel Tool Box to Stainless Steel, 30" W x 24" T x 24" D - <b>Driver's Side</b>		
<input checked="" type="checkbox"/>	I14	Traffic Cone Holder on Driver's side		
<input checked="" type="checkbox"/>	I18	Folding Rear Door Tube Rack ( 6 Tubes) - Folding (Tubes not included)		
<input checked="" type="checkbox"/>	I20	Rear Drain Hose Rack for 6" Layflat hose		
		<b>Section J - Chassis Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	DOT Lighting / Fenders / Mud flaps / Body and Tailgate Safety Props, ICC Lights		
	Std	70 Gallons AW-46 Hydraulic Oil, Level/Temperature Gauge, Shutoff on Suction		
	Std	Rear DOT Bumper		
	Std	Triangle Kit		
	Std	Fire Extinguisher 5 Lb.		
	Std	Back Up Alarm - Standard		
<input checked="" type="checkbox"/>	J1	Allison Automatic Trans. - Speed Reduction Gearbox for Giant Pump - required for auto. trans.		
<input checked="" type="checkbox"/>	J4	Tow Hooks Rear		
<input checked="" type="checkbox"/>	J12	Metal Mud Flaps in Front of Rear Tires		
<input checked="" type="checkbox"/>	J22	Stainless steel dump apron / pan on rear bumper		
		<b>Section K - Paint Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	Paint body - White		
	Std	Paint boom - Black		
	Std	Paint frame, blower, silencer, boom base - Black		
	Std	Paint parts (boom tube, ladder, etc.) - Black		
		<b>Section M - Miscellaneous Options</b>		
	<b>Option Number</b>	<b>Description</b>		
	Std	<b>25 Feet of Vacuum Tubing:</b>		
		* 4 each of 8" x 5'		
		* 1 each of 8"X5' w/bolt on <b>Soft Tip</b>		
		* Six 8" tube clamps		
	Std	Operations and Maintenance Manual		
<input checked="" type="checkbox"/>	M3	Fill Hose 25' x 2 1/2"		

<input checked="" type="checkbox"/>	M28	(5) Traffic cones - 28" Lime Green with reflective stripe		
		<b>SUB-TOTAL</b>		