

**ROSS VALLEY FIRE DEPARTMENT  
STAFF REPORT**

For the meeting of: September 10, 2014

To: Board of Directors

From: Mark Mills, Fire Chief

Subject: Chipping Program

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**RECOMMENDATION:**

Staff recommends that the Board provides direction to authorize and purchase a chipper to initiate the Ross Valley Fire Department Chipping Program by allocating \$11,000 from the Undesignated Reserve fund.

**BACKGROUND:**

Residential "Chipper Days" have been held over the years within the Ross Valley Fire Department Jurisdiction, on multiple occasions and encompassing numerous locations. The chipper events are usually held at the expense of the individual property owners, Towns, or homeowner's associations with matching funds at times, from the Fire Safe Marin Council. These events have been relatively successful and have resulted in the removal of unwanted limbs and brush from individual properties. The limitation of this type of removal is that the property owner is responsible for transporting the limbs and brush to the chipper site. It would be much more advantageous to the property owners, for the chipper to be brought to their property, to pick up and chip the brush at the site. The chips could then be blown back onto the site or hauled away.

In order to relieve the property owners of the burden of transporting the brush, the Sleepy Hollow Fire Protection District and the Town of Fairfax have expressed an interest in discussing a purchase of a chipper and truck to be utilized by the Ross Valley Fire Department throughout the jurisdiction.

**DISCUSSION:**

While pursuing purchasing and funding options the Fire Safe Marin Council was awarded \$27,000 that could be used towards the purchase of chipper. With the addition of those funds the Ross Valley Fire Department could purchase a new chipper by adding in an additional \$13,000. By combining resources with the Fire Safe Marin Council the chipper could be utilized throughout the entire jurisdiction to benefit the entire constituency. The unit would be housed and stored at the Ross Valley Fire Department.

The ultimate goal of the program will be to provide curb-side chipping and removal chips from the individual property owners. The Marin Sanitary Service has agreed to a private / public partnership that would allow the RVFD to dispose of the green waste (chips) at no charge to the department, at their San Rafael

AGENDA ITEM # 6  
Date 9/10/14

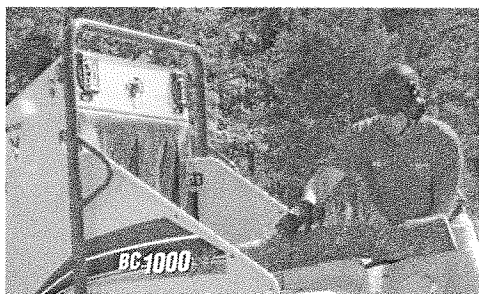
site. Additionally, the Marin Sanitary Service has agreed to assist in picking up the roadside debris and chipping it at the facility as needed.

The next step in the project would be the purchase of chipper truck that can tow the chipper and haul away the chips. The trucks are commercially available and range in price depending on chassis and dump body size. Further analysis and pricing needs to be completed in order to develop a firm purchase price point.

## **FINANCIAL IMPACT**

The Undesignated Reserve fund has \$208,203. Staff recommends utilizing \$13,000 from that account to complete the chipper purchase which will result in a balance of \$195,203.

# BC1000XL TIER 4 FINAL BRUSH CHIPPER



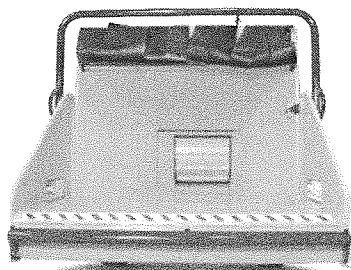
**OPERATOR SAFETY.** Combined with the patented Bottom Feed Stop Bar is the four-position upper feed control bar with dual stop positions and forward/reverse feed positions. Mounted over the feed table, it enables the operator to stop the feed rollers and select forward or reverse operations. Dual reset/hold-to-run buttons allow the operator to readily reset the Bottom Feed Stop Bar.

## ECOLDLE™

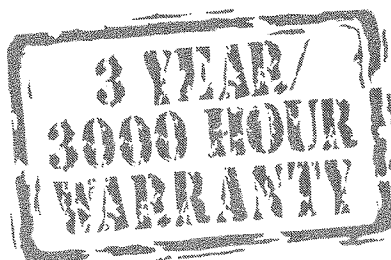
**ECOLDLE™ ENGINE CONTROL SYSTEM.** The Ecoldle engine control system can help consume less fuel if the feeding process has frequent interruptions, and also aid in noise reduction.



**SMARTFEED.** The patented SmartFeed system helps increase operator productivity while reducing strain on vital engine parts. The feed-sensing control system monitors engine rpm and automatically stops and reverses the feed roller when feeding larger, hardwood material.



**LARGE FEED OPENING.** A large rectangular 12" x 17" (30.5 cm x 43.2 cm) feed opening helps boost productivity by reducing the need to trim material before feeding it into the chipper.



**EXTENDED WARRANTY.** The 3-year/3000-hour extended limited warranty on drum housing, cutter drum, shaft and ring-fetter hubs offers you peace of mind, in addition to the 1-year/1000-hour Vermeer equipment limited warranty.

# BC1000XL TIER 4 FINAL BRUSH CHIPPER

## GENERAL

Weight (engine option one): 4995 lb (2265 kg)

Weight (engine option two): 4995 lb (2265 kg)

## ENGINE OPTION ONE

Make and model: Deutz D2.9L Tier 4 Final

Horsepower: 49 hp (36.5 kW)

Max torque: 108 ft-lb (146.2 Nm)

Fuel type: Diesel

Number of cylinders: 4

Cooling medium: Liquid

## ENGINE OPTION TWO

Make and model: Deutz TD2.9L Tier 4 Final

Horsepower: 74 hp (55.2 kW)

Max torque: 180 ft-lb (255 Nm)

Fuel type: Diesel

Number of cylinders: 4

Cooling medium: Liquid

## CAPACITIES

Fuel tank: 25 gal (94.6 L)

Hydraulic tank: 7 gal (26.5 L)

## ELECTRICAL

System voltage: 12 V

Lights: LED stop, turn, tail, license

## CUTTING SYSTEM

Drum size: 20" dia. x 20" wide (50.8 cm dia. x 50.8 cm)

Speed: 2050 rpm

Knives: Two A8 chipper steel

Shear bar: Four usable edges

## CHASSIS

Frame: .25" x 7" (.6 cm x 17.8 cm) Z channel

Tires (option 2): ST235/80/R16 Load Range E

Axle / suspension: Torsion

Optional Axle / suspension for engine option 2: 7000 lb (3175.1 kg)

Electric brakes with breakaway switch

## FEED/DISCHARGE SYSTEM

Infeed throat / feed capacity: 12" x 17" (30.5 cm x 43.2 cm)

Infeed opening: 52" x 32" (132.1 cm x 81.3 cm)

Feed table length: 32" (81.3 cm)

Feed table height: 26" (66 cm)

Feed roller style: Single horizontal

Infeed rate: 105 fpm (32 m/min)

## NOTES:

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Investment Proposal for:  
ROSS VALLEY FIRE DEPARTMENT  
777 SAN ANSELMO AVE  
SAN ANSELMO, CA 94960  
Phone: (415) 258-4686



Eric Rutledge  
24353 Clawiter Rd.  
Hayward, CA 94545  
Phone: (925) 454-3100  
Mobile: (925) 667-6335

Thank you for allowing me the opportunity to quote you this equipment. We appreciate your business. Eric

**Equipment: NEW 2014 VERMEER BC1000XL**

List Price \$39,720.00

**Key Features**

BC1000XL019 BASIC DISCHARGE DEFLECTOR  
BC1000XL027 5200LBS (DOM) AXLE, 16" TIRES, TONGUE, HITCH  
BC1000XL428 BC1000XL 2.9L T4F DEUTZ INSTRUMENTATION PANEL  
BC1000XL086 BASIC SOUND REDUCTION  
BC1000XL31VP BC1000XL 74HP DEUTZ TIER 4 FINAL

**Model Description**

When you need power and performance for your tree-care operation – look no further than Vermeer. The Vermeer BC1000XL was built to offer you the latest innovations in power, productivity and operator safety. Powered by a Cummins 74-hp Tier IV diesel engine, the BC1000XL has the strength needed to chip through some of your toughest jobs, while the 25-gallon (94.6-L) fuel tank helps reduce time spent refueling and increases your time spent on the job site.



**Serial Number**

1VRY11197E1021318 (1 Approximated Hours)

Equipment Price \$39,720.00

**Additional Items**

Other	CARB and DMV Fees	\$688.00
Customer Discount	Municipal Discount	(\$4,160.00)
Prep / Reconditioning		\$220.00
Freight In		\$1,000.00

**Estimated Conversion Price: \$37,468.00**

PROPOSAL SUMMARY

Equipment Total	\$37,468.00
Sub Total	\$37,468.00
Estimated sales tax to apply	
(Tire Fee (TF))	\$3.50
(CAZA CA SAN ANSELMO-TOWN)	\$3,372.12

Total Investment \$40,843.62

**California Air Resources Disclosure** - When operated in California, any off-road diesel vehicle may be subject to the California Air Resources Board In-Use Off-Road Diesel Vehicle Regulation. It therefore could be subject to retrofit or accelerated turnover requirements to reduce emission of air pollutants. CA Air Resources Board Regulation 2449(d)(3) As of June 15th, 2008 idling rental equipment must be limited to 5 minutes.

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