

ARPA Submission: Chehalem Valley Brewing Co.

Project

Waste Water Reclamation and Reduction

Project Location:

1040 Industrial Parkway, Suite H
Newberg, OR 97132

Justification

Due to the ongoing economic impact of COVID we have not been able to make necessary improvements to the efficiency and sustainability of Chehalem Valley Brewing. Within the brewing process it is critical to reduce the temperature from boiling to 65F as quickly as possible. The current process results in use of 500 gallons of water per brewing session, all of which runs into the waste water drainage system. This is a waste of natural resources, is not environmentally conscious and increases the burden on the city sewer system.

The proposed project would allow the waste water to be recaptured and re-used to a 98% efficiency. The recapture and re-use of water would save an estimated 50,000 gallons of water annually that currently runs into the sewer system. It represents a commitment from Chehalem Valley Brewing and the City of Newberg to invest in economically and environmentally sustainable projects benefiting local business and the city.

Project Cost Estimate: The Material, Management and Installation cost associated with the project is \$40,300. Pending assessment of permit requirements, the project could total \$44,402.19. Please see tables provided below for detail.

Revised Project Timeline: If the funds requested are fully approved, the project can be completed within 60 days. Partial approval of funds will impact the completion and a new time line will need to be evaluated.

If permitting is required per current permit approval lead-time, the project can be completed within 150 days of funding.

Project Sustainability

This project will benefit multiple local businesses and contribute to the Newberg economy through short-term and long-term job creation.

- 1) Equipment will be purchased from a local Portland manufacturer (PKW)
- 2) Trade work required for installation will be through a local business
- 3) Efficiency and reduced costs in the brewing process will support the addition of a full-time assistant brewer

In addition to economic benefits, the project will have a lasting impact on the use of natural resources.

- 1) At current production volume the project will reduce 50,000 gallons of water consumption and waste annually
- 2) Reduce strain on the sewer system

ARPA Expenditure Categories (EC)

This grant request falls under category 2.9.

Total ARPA Funds Requested: \$44,402.19

Project Cost Estimate:

Project Budget

Project Management	\$1,000.00
Design and Engineering	\$500.00
Equipment/Materials	
10BBL Cold Liquid Tank	\$11,000.00
Process Piping	\$2,800.00
Temperature Control Panel	\$2,200.00
Pump	\$3,000.00
3BBL Caustic Liquid Holding Tank	\$5,000.00
Heating/Cooling Unit	\$9,800.00
Installation	
Plumbing	\$2,500.00
Electrical	\$2,500.00
Project Materials and Installation	\$40,300.00
Permits (see Table II)	\$4,102.19
Total:	\$44,402.19

Table II: Permit Fee Estimate

	<u>Permit</u>	<u>Permit Fee</u>	<u>Plan Review</u>	<u>Total</u>
Mechanical Permit - Furnace	\$1,709.07	\$91.57	\$45.79	\$1,846.43
Mechanical Permit - Ventilation	\$788.81	\$91.57	\$45.79	\$926.17
Plumbing Permit - Gas Piping 1-4 connects	\$655.39	\$91.57	\$45.79	\$792.75
Plumbing Permit - Water Connections (2)	\$43.00	\$43.00	\$21.50	\$107.50
Plumbing Permit - Water/Sanitary/Sewer (100 feet)		\$91.57	\$45.79	\$137.36
Electrical Permit		\$188.00	\$104.00	\$292.00