DEPARTMENT OF ECOLOGY
State of Washington

Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to Ground Water by Land Treatment or Application

This application is for a state waste discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. Permit applications provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, the flow characteristics of the discharge, and the site characteristics at the point of discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

SECTION A. GENERAL INFORMATION

1. Applicant name: ALWCo-Ancient Lake Wine Company, LLC

2. Facility name: _____
(if different from applicant)

3. Applicant mail address: P.O. Box 1260
Street

Quincy/Washington — 98848-1260
City/State — Zip

4. Facility location address: 795 Beverly-Burke Road North
(if different from above)
Street

Quincy/Washington — 98848
City/State — Zip

5. UBI No. 603-380-378

Sometimes called a registration, tax, "C," or resale number, the Unified Business Identifier (UBI) number is a nine-digit number used to identify persons engaging in business activities. The number is assigned when a person completes a Master Business Application to register with or obtain a license from state agencies. The Departments of Revenue, Licensing, Employment Security, Labor and Industries, and the Corporations Division of the Secretary of State are among the state agencies participating in the UBI program.

6. Latitude/longitude of the processing facility as decimal degrees (NAD83/WGS84):
47.100286 N / 119.854564 W

FOR ECOLOGY USE ONLY	Check One	New/Renewal ☐	Modification ☐
Date application received		Application/Permit no.	
Date application accepted		Date fee paid	

SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System,* 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (http://www.census.gov/epcd/naics/frames3.htm).

Description: See attached.

2. List raw materials and products:

Type	RAW MATERIALS	Quantity
Potatoes (Example)		*20 million tons per year*
Grapes/Wine		12,000 tons per year (2,000,000 gallons of wine)- Phase I as of October, 2016 (Tank Pad I, Lagoon 1 +2, Office Building)
Grapes/Wine		21,000 tons per year (3,400,000 gallons of wine) - Phase II as of December, 2018 (addition of Bottling Line, Warehouse 1, 2, 3 + 4)
Grapes/Wine		50,000 tons per year (8,250,000 gallons of wine) Phase III-IV (addition of Tank Pad II, Barrel Room, Lagoon 3)

Type	PRODUCTS	Quantity
French fries (Example)		*10 million pounds per year*
Wine		2,000,000 gallons/year - Phase I
		3,400,000 gallons/year- Phase II
		8,250,000 gallons/year - Phase III-IV

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1that generates wastewater, list the process, assign the waste stream a name and ID #, and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
Receiving raw potatoes (Example)	*Mud Water*	*1*	*C*
Receiving raw grapes		#1	Batch
Wine presses		#2	Batch
Tank washing		#3	Batch
Floor cleaning		#4	Batch
Screening of wastewater		#5	Batch
Bottling		#6	Batch

2. On a separate sheet, produce a schematic drawing showing production processes and water flow through the facility and wastewater treatment devices *(label as attachment C2).* The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent and should label the treatment units. Construct the water balance by showing average flows between intakes, operations, treatment units, and points of discharge to land. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a description of the nature and amount of any sources of water and any collection or treatment measures.

3. What is the highest daily discharge flow from the processing facility:
(Specify the time period for the value given)

10,000 gallons per day

What is the highest daily discharge flow to the sprayfields/infiltration basin:
(Specify the time period for the value given)

inches/acre/month OR

12,000 gallons per day

What is the highest average monthly discharge flow (daily flows averaged over a month) from the processing facility:
(Specify the time period for the value given)

5,000 gallons/day?

What is the highest average monthly discharge flow to the sprayfields:
(Specify the time period for the value given)

inches/acre/month OR

12,000 gallons per day

4. Describe any planned wastewater treatment or sprayfield/infiltration improvements and the schedule for the improvements or changes. *(Use additional sheets, if necessary and label as attachment C4.)*

Phases II and beyond will have similarly sized lagoons. Construction will take place every 5 years, or so.

Materials/Quantity Stored:

			Yes	No
10.	Some types of facilities are required to have spill or waste control plans. Does this facility have:			
	a.	A spill prevention, control, and countermeasure plan (40 CFR 112)?	☐	☒
	b.	An Oil Spill Contingency Plan (chapter 173-182 WAC)?	☐	☒
	c.	An emergency response plan (per WAC 173-303-350)?	☐	☒
	d.	A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?	☐	☒
	e.	Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____	☐	☒
	f.	A solid waste control plan?	☐	☒

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X	Parameter	Measurement Values			Number of Analyses	Analytical Metho Std. Methods 19th,2 edition or EPA
		Minimum	Maximum	Average		
	BOD (5 day)					SM 5210 B
	COD					SM 5220 D
	Total suspended solids					SM 2540 D
	Fixed Dissolved Solids					SM 2540 E
	Total dissolved solids					SM 2540 C
	Conductivity (micromhos/cm)					SM 2510 B
	Ammonia-N as N					SM 4500-NH_3 C
	pH					SM 4500-H
	Fecal coliform (organisms/100 mL)					SM 9221 E or 9222
	Total coliform (organisms/100 mL)					SM 9221 B or 9222
	Dissolved oxygen					SM 4500-O C/G
	Nitrate + nitrite-N as N					SM 4500-NO_3 E
	Total kjeldahl N as N					SM 4500-N_{org} C/E/I
	Ortho-phosphate-P as P					SM 4500-P E/F
	Total-phosphorous-P as P					SM 4500-P E/P/I
	Total Oil & grease					EPA 1664A
	NWTPH - Dx					Ecology NWTPH I
	NWTPH - Gx					Ecology NWTPH C
	Calcium					EPA 200.7
	Chloride					SM 4500-Cl C
	Fluoride					SM 4500-F E
	Magnesium					EPA 200.7
	Potassium					EPA 200.7

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6. Are any other pesticides, herbicides, or fungicides used at this facility? ☐ YES ☒ NO

If yes, specify the material and quantity used.

7. Are there other pollutants that you know of or believe to be present? ☐ YES ☒ NO

If yes, specify the pollutants and their concentration if known (attach laboratory analyses if available). ☐ DON'T KNOW

Parameter	Units	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
Mercury	☐mg/L ☐ µg/l				
Selenium	☐mg/L ☐ µg/l				
Silver	☐mg/L ☐ µg/l				
Zinc	☐mg/L ☐ µg/l				
Depth to water level (to the nearest .01 feet)					

3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map and aerial photograph(s) from an internet mapping site that shows the processing facility and sprayfield site(s). **USGS topographical maps are available from the Department of Natural Resources (360 902-1234), Metsker Maps (206 588-5222), some local bookstores, and internet sites.** Show the following on this map:

   a. Location and name of internal and adjacent streets.
   b. Surface water drainage systems within ¼ mile of the site.
   c. All wells within 1 mile of the site.
   d. Wastewater discharge points.
   e. Land uses and zoning adjacent to the wastewater application site.
   f. Groundwater gradient.

4. Describe the soils on the site using information from local soil survey reports. **Soils information is available from your local County Conservation District or from information contained in the sites hydrogeologic report**. *(Submit on separate sheet and label as attachment G.4.)*

5. Describe the local geology and hydrogeology within one mile of the site. Include any groundwater quality data. **The local library or local Soil Conservation Service may have this information**. *(Submit on separate sheet and label as attachment G.5.)*

6. List the names and addresses of contractors or consultants who provided information and cite sources of information by title and author.

   James A. Sewell & Associates, LLC, 400 South Jefferson, Ste. 452, Spokane, WA 99204

   Landau & Associates, 130 2nd Avenue South, Edmonds, WA 98020

5. Material handling/management practices

   a. Types of materials handled and/or stored outdoors: *(check all that apply)*

   ☐ Solvents
   ☐ Hazardous wastes
   ☐ Scrap metal
   ☐ Acids or alkalies
   ☐ Petroleum or petrochemical products
   ☐ Paints/coatings
   ☐ Plating products
   ☐ Woodtreating products
   ☐ Pesticides
   ☐ Other *(please list)*: _____

   b. Identify existing management practices employed to reduce pollutants in industrial storm water discharges: *(check all that apply)*

   ☐ Oil/water separator
   ☐ Detention facilities
   ☐ Containment
   ☐ Infiltration basins
   ☐ Spill prevention
   ☐ Operational BMPs
   ☐ Surface leachate collection
   ☐ Vegetation management
   ☐ Overhead coverage
   ☐ Other *(please list)*: _____

6. Attach a map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand drawn map if no other site map is available. Label this as attachment H.8.

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SECTION B. PRODUCTION INFORMATION - Attachment

ALWCo is expected to crush 12,000 tons of grapes producing 2,000,000 gallons of wine by the end of 2016 with the potential capacity of 17,000 tons for 2017. The grapes will be brought onsite by truck/trailer to be off-loaded into a hopper, where they will immediately be augured into two enclosed wine presses. The press separates the pomace from the freshly processed must. The pomace is removed from the press and sent out for animal feed. The juice is then mechanically transmitted to a stainless-steel tank for fermentation. Tank Pad 1 is projected to expand to crush 21,000 ton of grapes producing 3,400,000 gallons of wine at full capacity. Tank Pad 2 is expected to increase capacity by an additional 30,000 tons once constructed to full build out. Tank Pad 1 and 2 if completed could have the capacity to crush 50,000 tons of grapes to produce 8,250,000 gallons of wine.

Wastes generated from the operation include skins, pulp, seeds, and stems of the fruit, waste water from washing down processing areas and cleaning of items (presses, tanks, floor and equipment), product loss, laboratory wastes and stormwater onto the tank pad(s). Alkali washing of tanks and equipment and general high pressure washing comprise roughly 80% of the wastewater generated.

Construction of a 60,000-square foot (sqft.) warehouse and bottling line is underway. ALWCo services will expand June, 2017 to include a new bottling program and case goods wine storage. The finished wine will be pumped from the processing facility into the cross-flow filter in the new bottling facility to create a sterile product. The sterile wine is then pumped into the bottling line filler bowl and filled into bottles. Waste generated from the bottling line include wastewater from washing down/rinsing of tanks and cleaning of items, sterilizing water (165°F for 30 minutes) and rinse water. Sanitation of the bottling line will comprise of 90% of the wastewater generated from the bottling/warehouse facility. Three additional case good storage warehouses (2:50,000 sqft., 3:50,000 sqft, 4:68,000 sqft.) are proposed in the site plan.

A future 85,000 sqft. Barrel Room is planned with the capacity to hold upwards to 28,000 barrels. The wastewater stream generated from this faciliy will be from washing of barrels, washing down processing area and cleaning of items, the humidity and temperture control (misting) system.

ALWCo is evaluating the on-site wastewater and process water systems to properly manage our water balance for current practices and those planned in the future. A component of this evalution is looking at the feasability to discharge wastewater offsite to the George Wastewater Treatment Plant located approximately 1,350 feet (.25 mile) to the north east across Beverly-Burke Road NW. We have approached the City of Geroge to inquire what system developments are needed to send wastewater from Port Industrial Par No. 5 to the treatment plant.

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