

**Mark Anthony Brewing Plant
Aquifer Protection Permit No. P-513319
Place ID 198939, LTF No. 81756**

I. Introduction:

The Arizona Department of Environmental Quality (ADEQ) proposes to issue an Aquifer Protection Permit (APP) for the subject facility that covers the life of the facility, including operational, closure, and post-closure periods unless suspended or revoked pursuant to Arizona Administrative Code (A.A.C.) R18-9-A213. The requirements contained in this permit will allow the permittee to comply with the two key requirements of the Aquifer Protection Program: 1) meet Aquifer Water Quality Standards (AWQS) at the Point of Compliance (POC); and 2) demonstrate Best Available Demonstrated Control Technology (BADCT). BADCT's purpose is to employ engineering controls, processes, operating methods or other alternatives, including site-specific characteristics (i.e., the local subsurface geology), to reduce discharge of pollutants to the greatest degree achievable before they reach the aquifer or to prevent pollutants from reaching the aquifer.

II. Permittee & Facility Location:

The facility is located at 9601 N. Reems Road in Glendale, in Maricopa County, Arizona.

III. Facility Description:

Mark Anthony Brewing Inc. is authorized to discharge treated water (effluent) from an industrial Wastewater Treatment System (WWTS) for Mark Anthony Brewing (MAB) Plant with a maximum monthly average flow of 1.24 million gallons per day (mgd). MAB Plant is a beverage manufacturing plant located in Glendale, Arizona.

The water used for production of beverage products will be pumped from an on-site production well at a maximum rate of 1440 gallons per minutes (gpm). The water will be treated through a Reverse Osmosis (RO) system with a granular activated carbon designed by Suez Water Technologies & Solutions. Then the treated water will be used in the production of beverages. The RO reject water will be discharged to an onsite industrial WWTS.

The facility will consist of a WWTS to treat the wastewater generated at the site. The WWTS will receive wastewater generated by brewing operations including cleaning tanks, cleaning equipment, any product spillage, cooling tower blowdown water, boiler blowdown water and RO reject water. The WWTS consists of a wastewater wet well with pumps, wastewater storage tank, pH polishing tank, AquaTex Bioreactors #1, #2 and #3, Dissolve Air Flotation (DAF) unit, tertiary disk filter, sludge storage tank and sludge press. The sludge will be hauled offsite for management or disposal to landfill.

The WWTS effluent will be discharged to Dysart Drain Wash which is a tributary to the Agua Fria River under a valid AZPDES permit. The Dysart Drain Wash Outfall is approximately 6 miles from the WWTS. The effluent will flow through 1.2 miles of pipeline, one mile of concrete lined ditch, and four (4) miles of Dysart Drain which eventually discharges to the Outfall.

IV. Regulatory Status

This application for Individual APP was received on May 8, 2020.

V. Best Available Demonstrated Control Technology (BADCT):

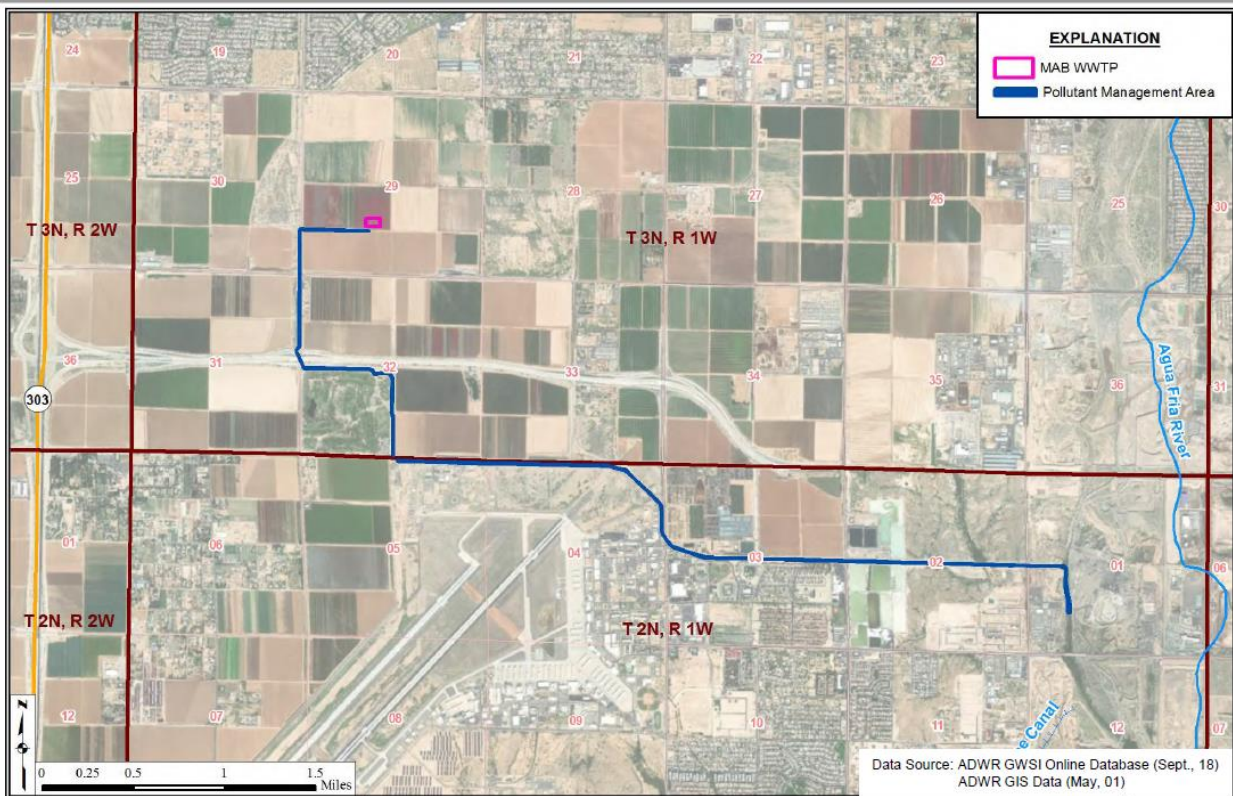
BADCT was achieved with engineering designs that assure the treated wastewater meets all applicable Aquifer Water Quality Standards (AWQS). In addition, the plant is designed to achieve Surface Water Standards for Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) before being discharged to the Outfall.

The BADCT for effluent discharge to the Outfall is the WWTS. The WWTS shall be maintained as described in this permit. Any modifications to the approved BADCT shall be submitted to ADEQ in the form of an amendment prior to construction or upgrade of a new or existing feature.

VI. Compliance with Aquifer Water Quality Standards (AWQS):

To ensure that site operations do not violate Aquifer Water Quality Standards at the point of compliance, representative samples of the effluent shall be collected from the point of discharge located downstream of the tertiary filters per Table 7 or Table 8 Routine Discharge Monitoring. The permittee shall monitor the effluent monthly or quarterly for total nitrogen, monthly for BOD₅, TSS and pH, and quarterly for metals,

Facility inspection and operational monitoring shall be performed on a routine basis (see Section 4.2, Table III in the permit).



MATRIXNEWORLD
Southwest Groundwater

**POLLUTANT MANAGEMENT AREA/ DISCHARGE IMPACT
AREA MAP**

**Figure
10**