

and a proposed 10-inch diameter well, and combine with Water Use Permit 2-075-217580-2 to add 105 irrigated acres.

PROJECT DESCRIPTION:

The project is located approximately 0.5 mile southwest of Trenton, south of SR-26 in Gilchrist and Levy counties; and consists of 2,856 controlled acres of which 1,718 acres are irrigated. The applicant is requesting to combine WUP 2-075-217580-2, Gail Asbel Farm consisting of 105 irrigated acres located in Levy County, with the Alliance Dairies LLP water use permit. Also, the applicant is requesting to place 140 acres into production on the Alliance Dairies LLP project for a total of 245 additional irrigated acres. Groundwater from one proposed 10-inch well (SF 22 Well, Station ID 140401) will be used to irrigate corn, sorghum, and winter forage through a center pivot, and groundwater from one existing 10-inch well (Well #13 Love 1, Station ID 119959) will be used to irrigation grass for silage through a center pivot. Groundwater from one existing 10-inch well (SF 129 Well, Station ID 34951) will be used to irrigate grass for silage, corn, sorghum, winter forage, peanuts, and melons, and groundwater from one proposed 6-inch well (HPI6 Cooling, Station ID 140400) will be used to water livestock.

Currently 15 existing wells, 8-inch or greater in diameter, are monitored using electrical consumption reporting, and the permittee has elected reporting of electrical consumption for two proposed and two inactive wells 8-inches or greater in diameter to comply with the water use reporting requirements of special condition 18.

WATER USE CALCULATIONS:

The Alliance Dairies LLP WUP, issued in 2011, accounted for 0.6946 mgd of wastewater reuse for supplemental irrigation to offset groundwater withdrawals, 2.2928 mgd of groundwater for supplemental irrigation, 0.6906 mgd for 4,604 milking dairy cattle, 0.0621 mgd for 3,101 dry dairy cattle, and 0.0018 for 120 employees. In 2015, the WUP was modified to add 0.4163 mgd for 255 irrigated acres. The combined previously permitted water use total of 3.4635 mgd together with the requested total allocation of 0.6514 mgd is 4.1149 mgd.

This modification also includes the livestock watering requirements for pregnant cattle based on the industry standard of 30 gallons per cow per day for 800 pregnant cattle.

The District's WUPAR model was used to determine the 15.61 inches/year of supplemental irrigation for corn grown from March 1 to July 1. The GIS-Based Water Resources and Agricultural Permitting and Planning System was used to determine the following supplemental irrigation requirements are provided for areas served by each respective well added with this modification:

SF 22 Well (Station ID 140401)

Corn from March 1 to July 1: 15.61 inches/ year
Corn from July 1 to October 15: 15.61 inches/ year
Winter forage from November 1 to February 28: 1.84 inches/ year
Sorghum from July 1 to October 15: 1.50 inches/ year

#13 Love 1 (Station ID 119959)

Grass for silage as a perennial: 31.84 inches/year

SF 129 Well (Station ID 34951)

Grass for silage as a perennial: 31.84 inches/year
Corn from March 1 to July 1: 15.61 inches/ year