

# Underground Injection Control Program Fact Sheet

## SECTION 1.0 FACILITY SUMMARY

<b>APPLICANT</b>	Hillandale Farms Conn, LLC
<b>PERMIT NO.</b>	UI0000477
<b>APPLICATION NO.</b>	202212179
<b>DATE APPLICATION RECEIVED</b>	December 15, 2022
<b>LOCATION ADDRESS</b>	28 Under the Mountain Road, Franklin CT 06254
<b>FACILITY CONTACT</b>	Ed Hoffman, Vice President  Office Phone: 860 886 8595 Email: <a href="mailto:ehoffman@hillandalefarms.com">ehoffman@hillandalefarms.com</a>
<b>MAILING ADDRESS</b>	17 Schwartz Road, Bozrah, CT 06334
<b>PERMIT TERM</b>	10 Years
<b>PERMIT TYPE</b>	Renewal
<b>PERMIT CATEGORY</b>	UIC Class V Injection Well
<b>TREATMET DESCRIPTION</b>	5W12 Advanced Treatment
<b>OWNERSHIP</b>	Private
<b>COMPLIANCE SCHEDULE</b>	Yes
<b>RECENT ENFORCEMENT HISTORY</b>	NA
<b>RECEIVING WATERBODY</b>	Beaver Brook Watershed
<b>WATERQUALITY CLASSIFICATIONS</b>	GA
<b>DISCHARGE LOCATIONS</b>	DSN 301-2
<b>DEEP STAFF ENGINEER</b>	Stephen Edwards

## SECTION 2.0 PERMIT FEES

### *Application Fee:*

Filing Fee	Cost: \$1,300	Date Paid: December 15, 2022
Processing Fee	Cost: \$3,675.00	Date Paid: December 15, 2022

### *Annual Fee:*

	<b>WASTEWATER CATEGORY (per 22a-430-7)</b>	<b>FLOW CATEGO RY</b>	<b>DSN</b>	<b>ANNUAL FEE (per 22a- 430-7 and CGS 22a- 6f)</b>
	Wastewaters from egg washing effluent to Groundwaters	20,000 gpd	301	\$1100.00
<b>TOTAL</b>				<b>\$1100</b>

## SECTION 3.0 BACKGROUND/PERMIT HISTORY

Hillandale Farms Conn, LLC presently discharges a maximum of 20,000 gallons per day of wastewaters generated from the cleaning, disinfecting, and packaging of chicken eggs to the groundwaters in the Mountain Brook watershed, which discharges to the Beaver Brook watershed, from operations at the company's three egg washing facilities located in Bozarh, Lebanon, and Franklin.

The facility (then dba Hidden Acres Three L.L.C) was originally permitted to discharge wastewaters from egg washing operations in 1988. It was destroyed by a fire in 1998 and their permit was allowed to expire. The Permittee applied for a new permit in 1999.

In 2002 the on-site treatment system began failing to meet the permit limits for biochemical oxygen demand (BOD). In 2003 DEEP agreed to a two phased approach to modify the wastewater treatment system. Phase 1 was approved on June 16, 2003, which consisted of installation of an additional septic tank and an effluent filter to add additional biochemical oxygen demand treatment. Phase 2 required the upgraded conventional system be evaluated for compliance with permit limits. Monitoring results indicated that the upgraded conventional system would not be adequate to consistently meet BOD, total suspended solids (TSS), total nitrogen, and total phosphorus limits.

The facility was then purchased by Moark, LLC. Moark investigated various alternative treatment technologies to treat the wastewater, including hauling the wastewater offsite. In November of 2007, Moark proposed building an advanced wastewater treatment plant at the Franklin site that would treat egg wash wastewater from the company's three egg washing facilities in Bozarh, Lebanon, and Franklin. DEEP concurred with the conceptual design in February of 2009.

The permit was last reissued on June 17, 2013 (App No., 200902821) and transferred from Moark, LLC to Hillandale Farms Conn, LLC on February 3, 2016 (App No. 201508621).

Hillandale Farms Conn, LLC submitted Application No. 202212179 on December 15, 2022, to renew Permit No. UI0000477. DEEP issued a Notice of Sufficiency for the application on April 19, 2023.

## **SECTION 4.0 NATURE OF BUSINESS GENERATING DISCHARGE**

Hillandale Farms Conn, LLC operates a chicken egg producing farm that generates wastewater from the cleaning, disinfecting and packing of chicken eggs from its three egg washing facilities.

The facility was packaging 2,500,000 eggs per day when the treatment system was first constructed. Currently, 3,500,000 eggs from 3,700,000 hens are packaged daily. This resulted in the average flow increasing from approximately 9,000 gpd to about 12,000 gpd.

## **SECTION 5.0 WASTEWATER TREATMENT SYSTEM**

**Conventional Treatment ( )      Advanced Treatment (X)      RECYCLE ( )**

DSN 301-2 represents the discharge from the existing alternative sewage treatment system consisting of: 12,000-gallon influent equalization tank, 1,700-gallon flash mix tank, two dissolved air flotation, a series of five (5) media filled moving bed bioreactors, sand filters, an effluent equalization tank, and an engineered leaching field consisting of fifteen (15) 12"X36" plastic chambers arranged in five (5) 265' zones.

## **SECTION 6.0 COMPLIANCE SCHEDULE**

Does the permit include a compliance schedule?      YES (X)      NO ( )

The proposed permit includes the following compliance schedules:

- 1) To record the permit in the town's land records;
- 2) A compliance schedule has been included in the permit to bring the facility back into compliance with the permit terms and conditions. The schedule gives the Permittee:
  - a. Three (3) months after permit issuance to submit a comprehensive engineering report evaluating the performance and operation of the on-site sewage treatment and disposal system and propose an action plan and schedule;
  - b. Six (6) months after permit issuance to submit plans and specifications for the installation of the approved remedial actions;
  - c. Two (2) year after approval to verify the system modification installation has been completed; and
  - d. Three months after installation, the Permittee shall provide verification that the modified alternative sewage treatment technology is operating in accordance with the approved plans and specifications.
- 3) Starting two (2) years after the issuance date of this permit, the Permittee shall submit the results of a detailed permit compliance audit every two years.

## **SECTION 7.0 BASIS FOR LIMITATIONS, PERMIT STANDARDS OR CONDITIONS**

In accordance with section 22a-430, DEEPs "Guidance for Design of Large-Scale On-Site Wastewater Renovation Systems," (February 2006) and based on review of the permit application, site investigation and hydraulic capacity modeling, and pollutant analyses of the wastewater, a determination has been made that there is a need for an advanced wastewater treatment system to protect the ground water from pollution. The advanced wastewater treatment is designed to treat wastewater and remove pollutants before being discharged to the pressure distribution leaching bed.

The advanced wastewater treatment system was designed to treat 20,000 gallons of egg wash wastewater. The current system consists of an alternative sewage treatment system which utilizes equalization, flash mix, two stage dissolved air flotation, media filled moving bed bioreactors and sand filters. The treated water is then discharged to an engineered leaching field.

A review of discharge monitoring reports and the Permittees evaluation of their system during the permit renewal process found the existing system is inadequate to consistently meet phosphorous and nitrogen limits prior to the leaching field and the treatment system is not operating as designed. However, the groundwater monitoring wells indicate compliance with the permit limits prior to leaving the site boundaries.

### **7.1 Advanced Wastewater Treatment**

The wastewater discharging to the advanced treatment plant and entering the leaching bed was designed to meet the following parameters:

- Average daily flow: 10,000 gallons per day
- Maximum daily flow (design): 20,000 gallons per day
- Daily minimum and maximum pH range: 6.0 – 9.0 S.U.

<b>Parameter</b>	<b>Average Monthly Limit</b>	<b>Maximum Daily Limit</b>
Biochemical Oxygen Demand <sub>5-day</sub>	20 mg/L	30 mg/L
Total Suspended Solid	20 mg/L	30 mg/L
Total Nitrogen	10 mg/L (12-month rolling average)	NA
Phosphorous	5 mg/L	NA

Monitoring of additional parameters, such as nitrate, has been included in the permit to quantify nitrogen loading and to validate design criteria and year-round operations of the treatment system.

### **7.2 Leaching Bed Requirements**

The leaching bed was designed to accept 20,000 gallons per day. The leaching field consisting of fifteen (15) 12”X36” plastic chambers arranged in five (5) 265’ zones.

The leaching bed and the unsaturated zone beneath it are designed to absorb phosphorus and the absorption rate has been demonstrated through calculations thus limiting the discharge significant concentrations of phosphorus to the groundwater.

Bacteria and virus inactivation is achieved as partially treated wastewater continues to flow through the unsaturated area under the leaching bed and downgradient of it. In accordance with the DEEPs design criteria, the minimum required travel time for the wastewater to all points of environmental concern is not less than 21 days.

### **7.3 Groundwater Monitoring**

Groundwater monitoring at the edge of the property is required to ensure the treated domestic wastewater does not cause pollution. Groundwater leaving the site boundaries must meet the primary maximum contaminant levels (MCLs) in the Safe Drinking Water Act. Groundwater will be monitored for the following parameters: depth to groundwater (feet), nitrate, as N (mg/L), nitrite, as N (mg/L), ammonia, as N (mg/L), total Kjeldahl nitrogen, as N (mg/L), and total nitrogen, as N (mg/L), total phosphorus as P (mg/l), pH (standard units), and total coliform.

## **SECTION 8.0 VARIANCES AND WAIVERS**

The facility requested that permit limits be applied at the onsite monitoring wells instead of the discharge to the leaching field. This request was denied, all advance treatment systems are required to meet two sets of effluent limits. The first set of effluent limits is applied at the end of

treatment system prior to entering the leaching field to ensure the treatment plant is operating as designed and the system is not hydraulically or organically overloaded The second set of effluent limits is applied in the groundwater at the downgradient compliance monitoring wells.

## **SECTION 9.0 E-REPORTING**

The permittee is required to electronically submit discharge monitoring reports.

## **SECTION 10.0 PUBLIC PARTICIPATION PROCESS**

### **10.1 Information Requests**

Interested persons may obtain copies of the application from Grant Weaver at (860) 866-7725, [g.weaver@cleanwaterops.com](mailto:g.weaver@cleanwaterops.com) or The Water Planet Company DBA CleanWaterOps, 123 Farmington Ave, Suite 145, Bristol CT 06010.

The application is available for inspection by contacting Steve Edwards at 860-424-3838 or [steve.edwards@ct.gov](mailto:steve.edwards@ct.gov), at the Department of Energy and Environmental Protection, Bureau of Materials Management and Compliance Assurance, 79 Elm Street, Hartford, CT 06106-5127 from 8:30 4:30, Monday through Friday.

Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the name and mailing address of the interested person and the area for which notices are requested.

### **10.2 Public Comment**

Prior to making a final decision to approve or deny any application, the Commissioner shall consider written comments on the application from interested persons that are received within thirty (30) days of this public notice. Written comments should be directed to Steve Edwards, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127 or [DEEP.UICPermitting@ct.gov](mailto:DEEP.UICPermitting@ct.gov). The Commissioner may hold a public hearing prior to approving or denying an application if in the Commissioner's discretion the public interest will be best served thereby and shall hold a hearing upon receipt of a petition signed by at least twenty-five persons. Notice of any public hearing shall be published at least thirty (30) days prior to the hearing.

### **10.3 Petitions For Hearing**

Petitions for a hearing shall be submitted within thirty (30) days from the date of publication of this public notice and should include the application number noted above and also identify a contact person to receive notifications. Petitions may also identify a person who is authorized to engage in discussions regarding the application and, if resolution is reached, withdraw the petition. The Office of Adjudications will accept electronically-filed petitions for hearing in addition to those submitted by mail or hand-delivered. Petitions with required signatures may be sent to [deep.adjudications@ct.gov](mailto:deep.adjudications@ct.gov); those mailed or delivered should go to the DEEP Office of Adjudications, 79 Elm Street, Hartford, CT 06106. If the signed original petition is only in an electronic format, the petition must be submitted with a statement signed by the petitioner that the petition exists only in that form. Original petitions that were filed electronically must also be mailed or delivered to the Office of Adjudications within thirty (30) days of electronic submittal. Additional information can be found at [www.ct.gov/deep/adjudications](http://www.ct.gov/deep/adjudications).

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). If you are seeking a communication aid or service, have limited proficiency in English, wish to file an ADA or Title VI discrimination complaint, or require some other accommodation, including equipment to facilitate virtual participation, please contact the DEEP Office of Diversity and Equity at 860-418-5910 or by email at [deep.accommodations@ct.gov](mailto:deep.accommodations@ct.gov). Any person needing an accommodation for hearing impairment may call the State of Connecticut relay number - 711. In order to facilitate efforts to provide accommodation, please request all accommodations as soon as possible following notice of any agency hearing, meeting, program, or event.

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