Spray Irrigation Operations Permit

Issued by: Groundwater Discharges Section
Division of Water
Department of Natural Resources
and Environmental Control
89 Kings Highway
Dover Delaware 19901
302-739-9948

DEN Number: 359051-03
Effective Date: September 14, 2018
Amended Date: October 16, 2018
Amended Date: December 8, 2020
Expiration Date: September 13, 2023

Amendments listed in Part VI

AUTHORIZATION TO OPERATE AND MAINTAIN
UNDER THE LAWS OF THE
STATE OF DELAWARE

PERMITTEE: Hometown Village of Cool Branch, LLC – Hometown America
100 Hitch Pond Circle
Seaford, Delaware 19973

FACILITY: Village of Cool Branch - Wastewater Treatment and Disposal Facility

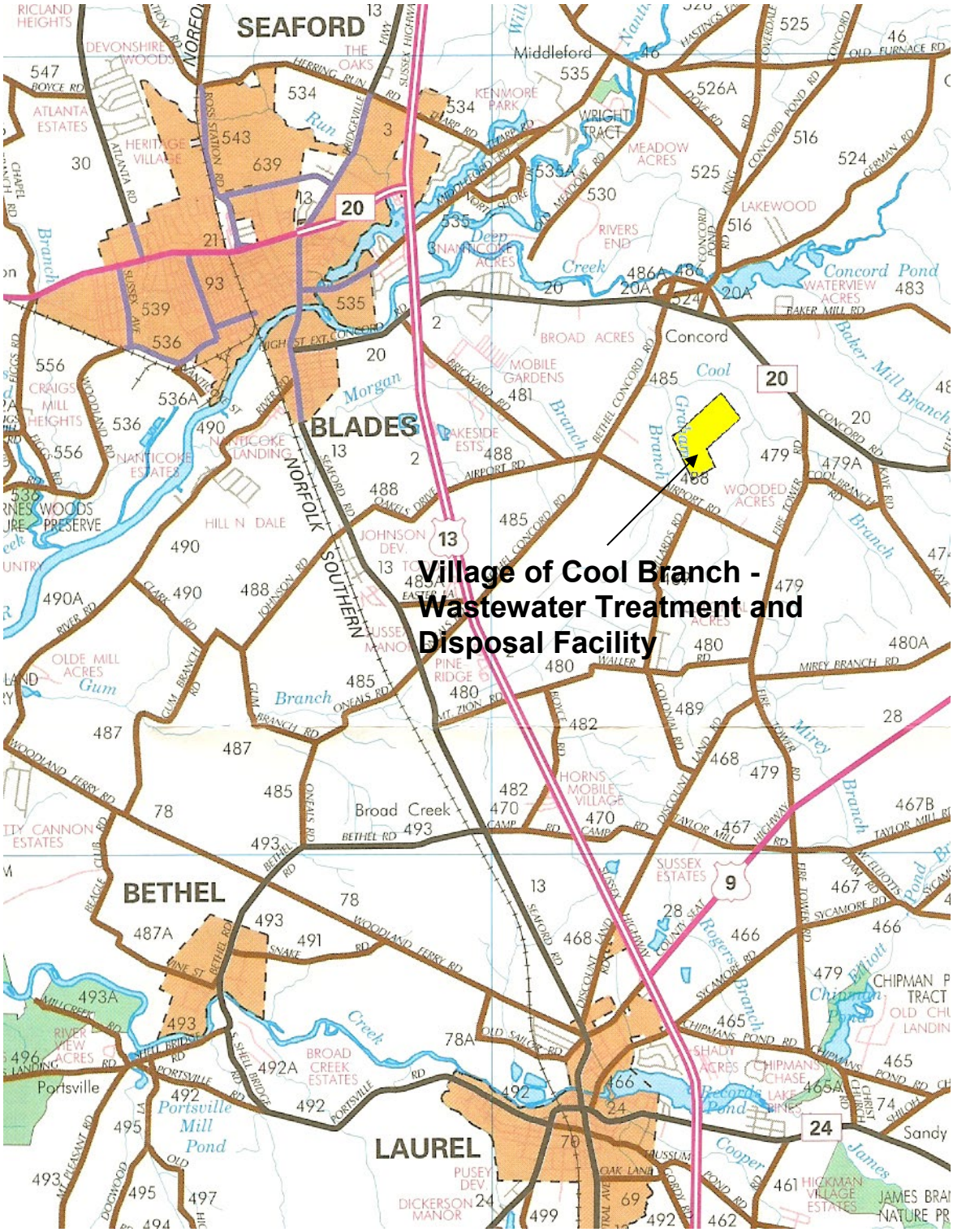
1. Pursuant to the provisions of 7 Del. C. §6003, **Hometown Village of Cool Branch, LLC – Hometown America** is herein authorized to operate and maintain the facility known as **Village of Cool Branch - Wastewater Treatment and Disposal Facility** to treat domestic wastewater from the **Village of Cool Branch** mobile home park and to spray irrigate the treated effluent. The wastewater treatment facility is located Southwest of Concord Rd (20), Southeast of Bethel Concord Rd (485), Northeast of Airport Rd (488), Northwest of Fire Tower Rd (479), bordered on the north by Cool Branch and on the east by Graham Branch, approximately 4.0 miles Southeast of Seaford, Sussex County, Delaware. The treated domestic wastewater is spray irrigated onto spray fields located Southwest of Concord Rd (20), Southeast of Bethel Concord Rd (485), Northeast of Airport Rd (488), Northwest of Fire Tower Rd (479), bordered on the north by Cool Branch and on the east by Graham Branch, approximately 4.0 miles Southeast of Seaford, Sussex County, Delaware.

2. The effluent limitations, monitoring requirements and other permit conditions are set forth herein.

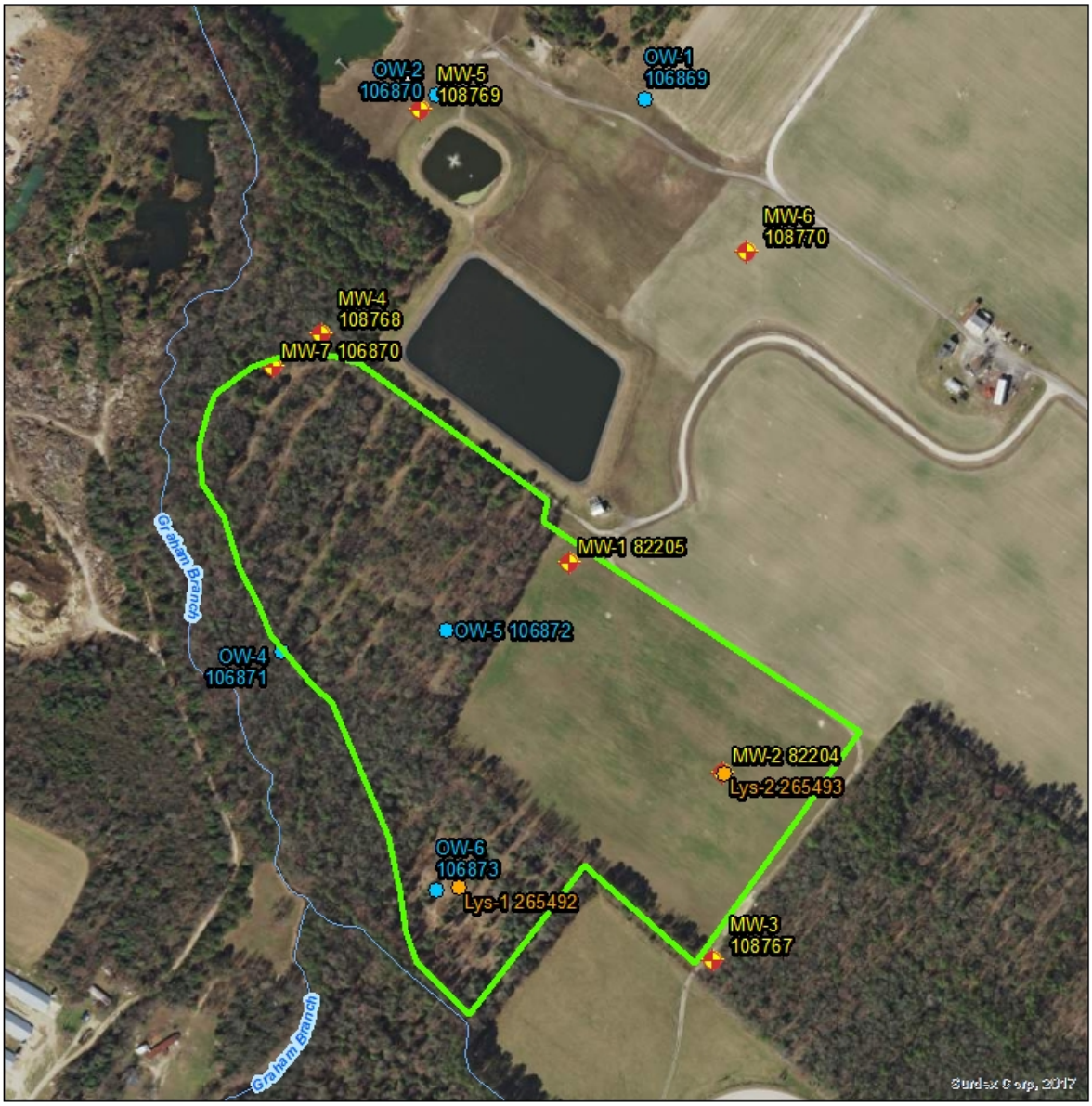
John J. Rebar, Jr.
Environmental Program Manager I
Groundwater Discharges Section
Division of Water
Delaware Department of Natural Resources
and Environmental Control

12/08/2020
Date Signed

LOCATION MAP



Village of Cool Branch - Wastewater Treatment and Disposal Facility Site Map



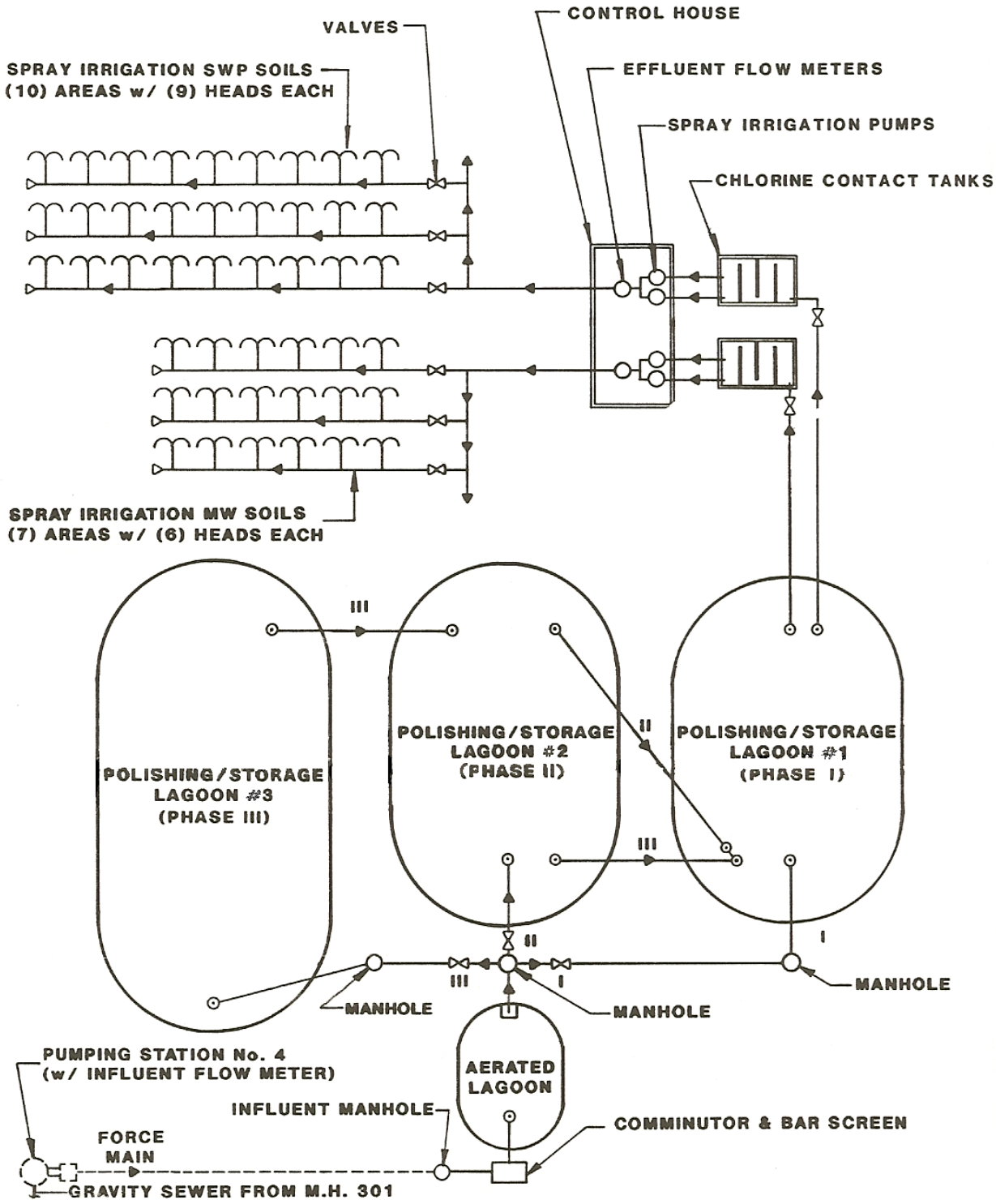
Legend

- Observation Wells
- Lysimeters
- Spray Area
- Monitoring Wells

N

0 120 240 480 720 960 Feet

PROCESS FLOW DIAGRAM



PART I

A. GENERAL DESCRIPTION OF OPERATION/DISCHARGES

The facility treats domestic wastewater from the **Village of Cool Branch** mobile home park.

The treatment facility is to be constructed in three phases. As of the issuance date of this permit, only Phase I has been completed.

Phase I is designed to treat up to 63,000 gallons per day and consists of a comminutor and a manually cleaned bar screen, one 2.41 million gallon aerated lagoon; one 6.68 million gallon facultative polishing/storage lagoon; two 5000 gallon chlorine contact chambers, with chlorination building and equipment; and one irrigation pump station with one 180 gpm pump and two 120 gpm pumps.

Phase II is designed to treat up to 90,900 gallons per day and consists of the construction of an additional 4.32 million-gallon polishing/storage lagoon.

Phase III is designed to treat up to 125,600 gallons per day and consists of the construction of an additional 6.3 million-gallon storage lagoon.

The spray irrigation area is 30.3 acres and may be planted in orchard grass, reed canary grass, alfalfa, corn, soy, wheat, rye and deciduous trees/woodlands. The effluent is distributed via a solid set spray irrigation system with 132 solid set sprinklers.

B. DOCUMENTATION

The wastewater treatment facility and disposal operation shall be conducted in accordance with the following documents:

1. The State of Delaware, Department of Natural Resources and Environmental Control's Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems, (Regulations).
2. February 1991 Design Development Report (DDR) with appendices submitted by Tatman and Lee Associates.
3. February 1, 1994 letter from Ronald Graeber to Craig S. Savage asking for additional information on the proposed wastewater treatment system.
4. January 1995 Addendum to Design Development Report (DDR) submitted by Tatman and Lee Associates.
5. June 20, 1995 Plans and Specifications for the treatment and spray irrigation system and approved Zoning Certificate.
6. April 1997 Operation and Maintenance Plan.
7. February 26, 2003 letter from Brian McKinley to Doris Hamilton requesting a name change on the permit from Larry's Homes, Inc. to Cool Branch Associates, LLC.
8. December 31, 2013 submittal from ForeSite Associates providing a remediation plan for the spray field, a revised Vegetative Management Plan, Nitrogen Balance Calculations, and an assessment of the existing irrigation system.
9. September 14, 2015 submittal from Mill Brook Engineering, LLC providing an application for an amendment and a revised Vegetative Management Plan including Nitrogen Balance Calculations.
10. November 9, 2016 Spray Irrigation Renewal Application.
11. October 9, 2020 application for transfer of ownership.
12. Any other correspondence, documentation and/or reports related to the **Village of Cool Branch - Wastewater Treatment and Disposal Facility** received and approved by the Groundwater Discharges Section and/or sent by the Groundwater Discharges Section.

C. INFLUENT LIMITATIONS

1. The average influent to the wastewater treatment facility shall not exceed 63,000 gallons per day in any calendar month. Only domestic wastewater from no more than 604 equivalent dwellings units from the **Village of Cool Branch** mobile home park shall be received by the wastewater treatment facility. The connection of additional units or waste streams other than those indicated in the approved design documents referenced in Part I.B is prohibited without prior written approval from the Groundwater Discharges Section.

   Design Treatment Capacity: 63,000 gallons per day
   [Calculated as Total Monthly Volume divided by Number of Days in Month]

2. Industrial and commercial discharges may not be connected to the facility without prior written approval from the Department's Groundwater Discharges Section.

D. SPRAYED EFFLUENT LIMITATIONS

During the period beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge to the spray irrigation field(s) identified on page 1, in Part I.A, and depicted on page 3 of this permit the quantity and quality of effluent specified below and in accordance with the design documents listed in Part I.B of this permit:

1. Spray irrigation shall be prohibited annually from February 1 through April 30. During these months, wastewater generated at the facility shall be kept in storage.

2. The average quantity of effluent discharged from the wastewater treatment facility to the spray fields shall not exceed 49.9 million gallons per year in accordance with the September 2015 Vegetative Management Plan's Nitrogen Balance prepared by Mill Brook Engineering, LLC.

   Design Disposal Capacity: 49.9 million gallons per year

   The average weekly and monthly average daily design loading rates in the September 2015 Vegetative Management Plan's Nitrogen Balance prepared by Mill Brook Engineering, LLC are as follows:

	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**
AVERAGE DAILY SPRAY (MGD)	0.051	0.000	0.000	0.000	0.103	0.206	0.257	0.257
AVERAGE DESIGN WASTEWATER LOADING RATE (IN/WEEK)	0.50	0.00	0.00	0.00	1.00	2.00	2.50	2.50
	Sep	**Sep**	**Oct**	**Oct**	**Nov**	**Nov**	**Dec**	**Dec**
	(SWP)	(MW)	(SWP)	(MW)	(SWP)	(MW)	(SWP)	(MW)
AVERAGE DAILY SPRAY (MGD)	0.206	0.257	0.154	0.206	0.051	0.154	0.051	0.077
AVERAGE DESIGN WASTEWATER LOADING RATE (IN/WEEK)	2.00	2.50	1.50	2.00	0.50	1.50	0.50	0.75

3. The average weekly quantity of effluent discharged to any portion of the spray irrigation field shall not exceed 2.5 inch per acre averaged over a 7-day rolling period.

   If operations of the facility encounter emergency or extenuating circumstances that would require the weekly quantity of effluent discharged to exceed 2.5 inches per acre per 7-day period, and the system would be able to assimilate the additional Nitrogen Loading without exceeding the limitations set forth in item 11 below, please contact the Groundwater Discharges Section for written authorization in accordance with Section 6.3.2.3.13.8.1 of the Regulations.

4. The quantity of effluent discharged to any portion of the spray irrigation field shall not exceed 0.25 inch/acre/hour.

5. There must be a sufficient rest period between applications to prevent field saturation and runoff from occurring in any part of the field.

6. The pH of the effluent shall not be less than 5.5 standard units nor greater than 9.0 standard units at any time.

7. The total residual chlorine concentration shall not be less than 1.0 mg/L nor more than 4.0 mg/L at any time.

8. The Chloride concentration of the effluent shall not exceed 250 mg/L on an average annual basis.

9. The Sodium concentration of the effluent shall not exceed 210 mg/L on an average annual basis.

10. Design Effluent Nitrogen Concentration:

    The facility has been designed for an annual average effluent Total Nitrogen concentration of 17.42 mg/L and maximum monthly effluent Total Nitrogen concentration of 24.27 mg/L. [Values calculated and/or taken from September 2015 Vegetative Management Plant - Nitrogen Balance prepared by Mill Brook Engineering, LLC.]

    If the effluent Total Nitrogen concentration exceeds the Design Values by 25% in any calendar month, the permittee shall resample the wastewater and submit the additional analyses to the Groundwater Discharges Section. If the effluent Total Nitrogen concentrations exceed the Design Values by 25% for over a three-month period, the permittee must have the system evaluated to determine the cause and submit a revised Design Engineer Report to the Groundwater Discharges Section. If the effluent exceeds the Design Value by 50%, the Department may invoke the provisions of Part V.A.1 of this permit. [Also reference Part II.B.1.]

    The design effluent Total Nitrogen concentrations in the September 2015 Vegetative Management Plan's Nitrogen Balance prepared by Mill Brook Engineering, LLC are as follows:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EFFLUENT TOTAL NITROGEN AS N (MG/L)	24	23.59	21.48	18.83	13.3	10.01	7.83	9.9	13.9	19.64	22.23	24.27
[Design Value + 25%]	30	29.49	26.85	23.54	16.63	12.51	9.79	12.4	17.4	24.55	27.79	30.34

11. The total amount of nitrogen that may be applied to each spray field acre shall not exceed 230.55 lbs/year. [Values taken from September 2015 Vegetative Management Plant - Nitrogen Balance prepared by Mill Brook Engineering, LLC.] This amount includes supplemental fertilizers, the nitrogen supplied from the effluent, and any other source.

    Adjustments and reductions for denitrification, ammonia volatilization, evapotranspiration and plant uptake are ***not*** to be factored into the annual reporting of Total Nitrogen Loading for demonstration of compliance with this limit.

    The approved crop types for the agricultural spray field are Orchard Grass, Reed Canary Grass, Alfalfa, Corn, Soy, Wheat, Rye and Deciduous Trees. If any crops are not removed from the spray irrigation fields, then the total nitrogen application rate for the field must be reduced by the amount of nitrogen that would be removed by harvesting the crop as detailed in the facility's Design Engineer Report and/or Design Nitrogen Balance.

12. The discharge to the spray irrigation fields shall be free from material such as floating solids, sludge deposits, debris, scum, oil and grease.

13. The facility has been designed for Limited Public Access.

    The treated wastewater utilized for Limited Public Access sites must meet the following daily permissible average concentrations. The daily average concentration shall be determined by the summation of all the measured daily concentrations obtained from composite samples during each calendar month divided by the number of days during the calendar month when the measurements were made.
    a. The 5-day Biochemical Oxygen Demand (BOD5) of the treated wastewater must not exceed 50 mg/L.
    b. Disinfection of wastewaters containing domestic waste is required to yield a discharge not to exceed 200 col/100 mL Fecal Coliform.
    c. The treated wastewater must not contain more than 90 mg/L of Total Suspended Solids.

Parameter	**Daily Permissible Average Concentration**
BOD_5	50.0 mg/L
Fecal Coliform	200 colonies/100 mL
Total Suspended Solids	90.0 mg/L

E. FACILITY CLASSIFICATION

1. A classification was performed on the permitted facility in accordance with Regulations Licensing Operators of Wastewater Facilities. The wastewater treatment system is designated as a Class II Facility. The facility must be under the direction of a Class II Licensed Operator in Direct Responsible Charge for the facility who is available at all times. A licensed operator, operating under the direction of the licensed operator in Direct Responsible Charge for the facility, must be available when the spray irrigation system is in operation.

F. SCHEDULE OF COMPLIANCE

1. The Permittee shall submit the information necessary and/or complete the following requirements for proper compliant operation of the spray irrigation system:

   a. Lysimeters: To bring the facility into compliance with Section 6.8.4 of the Regulations, Permittee shall install and sample two lysimeters to capture and characterize vadose zone percolate: one within the spray irrigation field and one within the wooded area.

      i. By March 30, 2019, Permittee must submit a lysimeter location and construction plan for review and approval.

      ii. By June 30, 2019, Permittee must install two lysimeters to bring the facility into compliance with Section 6.8.4 of the Regulations.

      iii. The lysimeters shall be installed in accordance with:

         a) 7301 *Regulations Governing the Construction and Use of Wells*

         b) The *General Lysimeter Construction and Sampling Guidelines,* attachment to the Regulations

      iv. By July 1, 2019, Permittee shall submit to the Groundwater Discharges Section written notification of completion of installation. The notification of completion must include the lysimeter well permit numbers and the geographic coordinates of the lysimeter locations as determined in the field using a global positioning system (GPS) and reported to the Groundwater Discharges Section in the following format: Delaware State Plane, meters, NAD83.

      v. By July 15, 2019, Permittee must initiate sampling of the lysimeters in accordance with the requirements iterated in Part II.A.5 of this Permit. The results must be submitted to the Groundwater Discharges Section in accordance with Part II.B.2 of the Permit.

2. The Permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance by specified date. In the event of noncompliance, the notice shall include the cause of noncompliance, any remedial action taken, and the probability of meeting the next scheduled requirement.

G. BUFFER REQUIREMENTS

1. Buffer zones must be maintained in accordance with Section 6.3.2.3.10 of the Regulations unless otherwise specified below.

   a. A 150 feet buffer shall be maintained between the edge of the wetted field area and individual lots; and

   b. A 100 feet buffer shall be maintained between the edge of the wetted field area and property lines where the adjacent property is wooded; and

   c. When Phase III is constructed, a 50 feet buffer shall be maintained between the new tax ditch and the toe slope of Lagoon No. 3 berm.

H. SLUDGE HANDLING REQUIREMENTS

N/A

I. FACILITY SPECIFIC CONDITIONS

1. No more than 604 units shall be connected to the wastewater treatment facility referenced herein.

2. The permittee shall comply with the three-part construction phase in this project, which is documented in the DDR as follows:

   Phase I - Construction of a comminutor and a manually cleaned bar screen, one 2.41 million gallon aerated lagoon; one 6.68 million gallon facultative polishing/storage lagoon; two 5000 gallon chlorine contact chambers, with chlorination building and equipment; and one irrigation pump station with one 180 gpm pump and two 120 gpm pumps.
   A maximum monthly average quantity of influent to the wastewater treatment facility shall not exceed 63,000 gallons per day prior to the completion of Phase II Construction.

   Phase II - Construction of an additional 4.32 million-gallon polishing/storage lagoon.
   A maximum monthly average quantity of influent to the wastewater treatment facility shall not exceed 90,900 gallons per day prior to the completion of Phase III Construction.

   Phase III - Construction of an additional 6.3 million-gallon polishing/storage lagoon.
   A maximum monthly average quantity of influent to the wastewater treatment facility shall not exceed 125,600 gallons per day after the completion of Phase III Construction.

   As of the issuance date of this permit, only Phase I has been completed.

3. The permittee shall submit to the Groundwater Discharges Section an application for a permit for construction prior to initiating Phase II and III construction. A written request to initiate startup shall also be submitted to the Department after construction has been completed for each phase. Upon final approval of construction, the permittee may apply for an amended operation permit. Additional fees may be required.

4. Once the wastewater flow reaches 80% of the permitted treatment capacity for the constructed phase based on a period of seven (7) consecutive days, the permittee must submit written notification to the Department. The written notification must include a work plan for construction of the next permitted phase. The permittee must submit a construction permit application, plans and specifications and Design Engineer Report with applicable fees if the next phase has not yet been permitted or if there are changes to the previously permitted design.

5. Off-site sewage may only be disposed of at the facility with written permission from the Groundwater Discharges Section provided those flows do not cause a violation of the provisions of this permit.

6. Dual influent flow meters shall be used to measure flow.

PART II

A. MONITORING REQUIREMENTS

During the period beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge to spray irrigation fields identified on page 1, in Part I.A, and depicted on page 3 of this permit. Such discharge shall be monitored by the Permittee as specified herein.

For samples required to be taken 'monthly' and/or 'twice per month', the samples for each monitoring location (i.e. effluent, well, lysimeter, etc.) shall be taken a minimum of 14 days apart.

Requests for monitoring modifications must be submitted to the Department's Groundwater Discharges Section in writing. Such requests must clearly state the reason for and nature of the proposed modification and, where applicable, must contain supporting scientific information, analysis, and justification. Requests will be addressed by the Department on a case by case basis.

Permittee shall initiate periodic reporting required under Part II.B.2 upon initiation of irrigation activities for all of the following monitoring requirements.

1. INFLUENT MONITORING REQUIREMENTS

Parameter	Unit of Measurement	Monitoring Frequency	Sample Type
Flow - Total Influent Flow for Month to Facility	Gallons	Continuous	Recorded
Flow - Max Daily Influent Flow to Facility	Gallons	Continuous	Recorded
Flow - Average Daily Influent Flow to Facility	Gallons/Day	Continuous	Calculation (Total Influent Flow for Month / Number of Days in Month)
% of Phase I Capacity (63,000 gpd)	Percent	Monthly	Calculation
BOD_5	mg/L	Monthly	Grab
TSS	mg/L	Monthly	Grab
Total Nitrogen	mg/L	Monthly	Grab
Ammonia Nitrogen	mg/L	Monthly	Grab
Nitrate/Nitrite as Nitrogen	mg/L	Monthly	Grab
pH	S.U.	Monthly	Grab
Total Phosphorus	mg/L	Monthly	Grab
Chloride	mg/L	Quarterly	Grab

2. SPRAYED EFFLUENT MONITORING REQUIREMENTS

Samples taken in compliance with the monitoring requirements for all parameters specified above shall be taken from the sampling port valve located on the discharge side of the chlorine contact chamber.

Parameter	Unit Measurement	Monitoring Frequency	Sample Type
Flow - Total Effluent Flow to all Areas combined	Gallons/Month	Continuous	Recorded
Flow - Max Daily Effluent Flow to all Areas combined	Gallons/Day	Monthly	Data
Flow - Average Daily Effluent Flow to all Areas combined	Gallons/Day	Monthly	Calculation (Total Effluent Flow for Month / Number of Days in Month)
Flow - Total Effluent Flow to each Zone	Gallons/Month	Continuous	Data
Number of Days Sprayed During the Month to each Zone	Days	Continuous	Data
Total Area Irrigated Under each Zone	Acres	Monthly	Data
Nitrogen Loading to each Zone	lbs N/acre per Zone	Monthly	Calculation
Phosphorus Loading to each Zone	bs N/acre per Zone	Monthly	Calculation
Ammonia Nitrogen	mg/L	Monthly	Composite
BOD_5	mg/L	Twice per month taken	Composite
Cadmium	mg/L	Annually	Composite
Chloride	mg/L	Quarterly	Composite
Copper	mg/L	Annually	Composite
Fecal Coliform	Col/100 ml	Twice per month	Grab
Lead	mg/L	Annually	Composite
Nickel	mg/L	Annually	Composite
Nitrate + Nitrite Nitrogen	mg/L	Monthly	Composite
Organic Nitrogen	mg/L	Monthly	Calculation
pH	S.U.	Three times per Week	Grab
Potassium	mg/L	Quarterly	Composite
Sodium	mg/L	Quarterly	Composite
Total Dissolved Solids	mg/L	Quarterly	Grab
Total Nitrogen	mg/L	Twice per Month	Composite
Total Phosphorus	mg/L	Monthly	Composite
Total Residual Chlorine	mg/L	Daily	Grab
Total Suspended Solids	mg/L	Twice per month	Composite
Zinc	mg/L	Annually	Composite

3. GROUNDWATER MONITORING REQUIREMENTS

Groundwater samples shall be taken from each monitoring well for the facility. Groundwater monitoring well locations are depicted on the Site Map found on Page 3 of this Permit.

Samples taken in compliance with the monitoring requirements specified shall be taken at each monitoring well in accordance with procedures approved by the Department and listed in the State of Delaware, Field Manual for Groundwater Sampling (Custer, 1988).

Groundwater monitoring results for each monitoring well shall be reported using the State of Delaware Well Identification Tag Number that is required on all wells in accordance with the Delaware Regulations Governing the Construction and Use of Wells, Section 10, A.

All field sampling logs and laboratory results for samples obtained from a well shall be identified by the DNREC ID affixed to the well.

Groundwater samples shall be tested from the following wells for the following parameters:

DNREC ID	Local ID
82205	MW-1
82204	MW-2
108767	MW-3
108768	MW-4
108769	MW-5
108770	MW-6
106870	MW-7

Parameter	**Unit Measurement**	**Measurement Frequency**	**Sample Type**
Ammonia as Nitrogen	mg/L	Quarterly	Grab
Chloride	mg/L	Quarterly	Grab
Depth to Water	hundredths of a foot	Monthly	Field Test
Dissolved Oxygen	mg/L	Quarterly	Field Test
Fecal Coliform	Col/100mL	Quarterly	Grab
Nitrate + Nitrite as Nitrogen	mg/L	Quarterly	Grab
pH	S.U.	Quarterly	Field Test
Sodium	mg/L	Quarterly	Grab
Specific Conductance	µS/cm	Quarterly	Field Test
Temperature	°C	Quarterly	Field Test
Total Dissolved Solids	mg/L	Quarterly	Grab
Total Nitrogen	mg/L	Quarterly	Grab
Total Phosphorus	mg/L	Quarterly	Grab

4. GROUNDWATER TABLE ELEVATION MONITORING REQUIREMENTS

Quarterly water level measurements shall be taken at each Observation Well listed below and depicted on page 3.

While performing the monitoring as required by Part II.A.3 and Part II.A.4 of this permit, if the 'Depth to Water' in any one of the wells has reached within 3 feet of the ground surface, the Permittee shall be required to collect additional weekly depth to water measurements from the monitoring wells within 3 feet of the ground surface. The additional monitoring is necessary to ensure that spray irrigation ceases on any areas of the spray fields where the groundwater may reach within 2 feet of the ground surface in accordance with Part III.A.5 of this permit. The Permittee may discontinue the additional weekly sampling for depth to water in a well when the groundwater table elevation readings in the well exceeds a 3-foot separation between groundwater and ground surface. The additional groundwater table elevation measurements must be recorded in the operator's log and reported to the Groundwater Discharges Section in accordance with Part II.B.2 of this permit.

Additionally, the Permittee must take weekly water level measurements in Observation Well 106872 during November, December and May. If the water level in Well 106872 rises to within 3 feet of the ground surface, weekly depth to water measurements must also be taken from Monitoring Wells 82205, 82204, 108767 and 16870 and in Observation Wells 106871, 106872, and 106873 until the water levels in each well drop to a depth greater than 3 feet below ground surface.

Spray irrigation must cease in any area where the water table lies within 2 feet below the ground surface.

Once the water levels decline to a depth greater than 3 feet below the ground surface in the aforementioned Monitoring Wells and Observation Wells, the additional weekly sampling may be discontinued and routine quarterly water level monitoring must resume in all seven Monitoring Wells and in Observations Wells 106871, 106872, and 106873.

The additional groundwater table elevation measurements must be recorded in the operator's log and must be reported to the Groundwater Discharges Section in accordance with Part II.B.2 of this permit.

DNREC ID	Local ID
106871	OW-4
106872	OW-5
106873	OW-6

5. LYSIMETER MONITORING REQUIREMENTS

Once installed in accordance with Part I.F of this permit, each of the two lysimeters shall be sampled and tested `for the following parameters.

The constituents are listed below in highest priority first. In the event that sufficient sample volume may not be obtained to test for all parameters listed, the sample shall be tested for as many constituents possible in the following order.

Lysimeter monitoring results for each lysimeter shall be reported using the State of Delaware Well Identification Tag Number that is required on all wells in accordance with the Delaware Regulations Governing the Construction and Use of Wells, Section 10, A.

All field sampling logs and laboratory results for samples obtained from a lysimeter shall be identified by the DNREC ID affixed to the lysimeter.

DNREC ID	Local ID
265492	Lys-1
265493	Lys-2

Parameter	**Unit Measurement**	**Measurement Frequency**	**Sample Type**
Total Nitrogen	mg/L	Monthly	Grab
Total Phosphorus	mg/L	Monthly	Grab
Nitrate + Nitrite as Nitrogen	mg/L	Monthly	Grab
Ammonia as Nitrogen	mg/L	Monthly	Grab
Chloride	mg/L	Monthly	Grab
Sodium	mg/L	Monthly	Grab
Total Dissolved Solids	mg/L	Monthly	Grab
pH	S.U.	Monthly	Field Test
Specific Conductance	µS/cm	Monthly	Field Test
Temperature	°C	Monthly	Field Test

6. SOIL MONITORING REQUIREMENTS

Composite soil samples representing each soil series within the wetted spray field shall be taken separately from both soil depths of 0–12 inches and 12–24 inches. A minimum of one composite sample for each of the both aforementioned depths is required for every 20 acres of each soil series. The composite soil sampling must represent the average conditions in the sampled body of material. The discrete samples that are to be composited must be collected from the same soil horizon and depth interval.

Soil sample locations shall be plotted on a scaled drawing and labeled consistent with the sample nomenclature. Each field must also be identified so that sample results may be tracked and properly assessed for field life limiting factors.

Soil chemical testing should be in accordance with Methods of Soil Analysis published by the American Society of Agronomy, Madison, Wisconsin.

Testing for Cadmium, Nickel, Lead, Zinc and Copper should be performed approximately one year prior to permit renewal so results may be utilized by Groundwater Discharges Section staff during renewal review.

Parameter	**Unit Measurement**	**Measurement Frequency**	**Sample Type**
pH	S.U.	Annually	Soil Composite
Organic Matter	%	Annually	Soil Composite
Phosphorus (as P_2O_5)	mg/kg	Annually	Soil Composite
Potassium	mg/kg	Annually	Soil Composite
Sodium Adsorption Ratio	meq/100g	Annually	Soil Composite
Cadmium	mg/kg	Once per 5 years	Soil Composite
Nickel	mg/kg	Once per 5 years	Soil Composite
Lead	mg/kg	Once per 5 years	Soil Composite
Zinc	mg/kg	Once per 5 years	Soil Composite
Copper	mg/kg	Once per 5 years	Soil Composite
Cation Exchange Capacity	meq/100g	*Only if soil pH changes significantly	Soil Composite
Phosphorus Adsorption (Mehlich 3 acceptable)	meq/100g	**Only if soil phosphorus levels become excessive for plant growth	Soil Composite
Percent Base Saturation	%	*Only if soil pH changes significantly	Soil Composite

*A significant change in soil pH is defined as a change of one or more standard units from the original value established in the Design Development Report.

** Excessive levels of soil phosphorus are defined by the Delaware Nutrient Management Commission. Soil phosphorus levels must be tested in accordance with the University of Delaware soil testing methods (Gartley, 2002). If the soil phosphorus levels become excessive, the Permittee must perform a Phosphorus Site Index (PSI) study. The results must be submitted to the Groundwater Discharges Section within 30 days of completion. Based on these, the Groundwater Discharges Section may require the Permittee to submit a plan for detailing steps to reduce the phosphorus loading rates at the site.

7. VEGETATION MONITORING

In the year prior to permit expiration, a minimum of one composite sample for each field is required upon each harvest. If a crop rotation is utilized either in alternate years or in the same year, the aforementioned requirement must be duplicated for each crop type.

Parameter	Unit Measurement	Measurement Frequency	Sample Type
Yield	Bushels/acre and lbs/acre	Per harvest	Vegetation Composite
Nitrogen	% and lbs/acre	Per harvest	Vegetation Composite
Phosphorus	% and lbs/acre	Per harvest	Vegetation Composite
% Moisture	%	Per harvest	Vegetation Composite

8. OPERATIONS MONITORING REQUIREMENTS

a. Spray Field Applications

Parameter	Unit Measurement	Monitoring Frequency	Sample Type
Fertilizer Nitrogen	lbs/acre per field/zone/pivot	Monthly	Reported
Fertilizer Phosphorus	lbs/acre per field/zone/pivot	Monthly	Reported

b. Treatment System

Results of operations monitoring tests shall be maintained pursuant to Part II.B.8.

Various sample locations will be established after construction of the facility by the Groundwater Discharge Section staff and facility operators.

Parameter	Sample Location	Unit Measurement	Monitoring Frequency	Sample Type
Lagoon Levels	Lagoons	Feet	Weekly	Field Test
pH	Various	S.U.	3 times per week	Field Test
DO	Various	mg/L	3 times per week	Field Test
Temperature	Various	°C	3 times per week	Field Test

9. SURFACE WATER MONITORING REQUIREMENTS

N/A

B. MONITORING SPECIFICATIONS AND REPORTING REQUIREMENTS

1. Representative Sampling

   Samples and measurements taken as required in the operation permit shall be representative of the volume and nature of the monitored discharge. If there has been significant increase (> 25%) in the characterization of any one parameter of the effluent wastewater as established in the Design Engineer Report, the permittee shall resample the wastewater and submit the additional analyses to the Department. The permittee shall re-characterize the wastewater to determine if a change in treatment is required and/or if the land limiting constituent has changed. If a change in treatment is required and/or if the land limiting constituent has changed, a revised Design Engineer Report shall be submitted to the Department. After a review of these results, the Department may invoke the provisions of Part V.A.1 of this permit.

2. Reporting

   Monitoring results obtained during the previous one month/quarter shall be summarized and reported on an approved monitoring report form(s) postmarked no later than the 28th day of the month following the completed reporting period. Laboratory analytical results and sampling logs must be submitted with the corresponding month's monitoring report. Signed reports/forms, laboratory analytical results, laboratory sampling logs and field data sheets shall be submitted in one complete package to the Department at the following address:

   Groundwater Discharges Section
   Division of Water
   Department of Natural Resources and Environmental Control
   89 Kings Hwy
   Dover, DE 19901
   (302) 739-9948 Office

3. Monitoring results reported as less than the detectible limit should be reported with the less than symbol "< " before the detection limit. The full detection limit value must be utilized in any necessary calculations. The less than symbol must be carried through the calculation. The resulting value must include any appropriate less than or greater than symbol resulting from the calculation.

4. Additional Monitoring by Permittee

   If the permittee monitors any parameter at the location(s) designated herein more frequently than required, using approved analytical methods, the results shall be reported to the Department on an approved monitoring report form. Such increased frequency shall also be indicated.

5. Annual Report

   The Permittee shall submit to the Department's Groundwater Discharges an Annual Report summarizing the operations, management, administration and maintenance of the facility for the calendar year. The Annual Report must be submitted to the Department's Groundwater Discharges on or before February 28th of each year. The Annual Report must include all applicable items found in Section 6.8.2.4.1.3 and Section 6.9 of the Regulations.

6. Test Procedures

   Test procedures for analysis of pollutants shall conform to the applicable test procedures identified in 40 CFR, Part 136 or the most recently adopted copy of Standard Methods unless otherwise specified in this permit.

7. Recording of Results

   For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

   a. The exact place, date and time of sampling and/or measurement;

   b. The person(s) who performed the sampling and/or measurement;

   c. The date(s) the analyses were performed and the time the analyses were begun;

   d. The person(s) who performed the analyses; and

   e. The results of each analysis.

8. Records Retention

   All records and information resulting from the monitoring activities required by this permit or the Regulations including all records of performed analyses, calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation shall be retained for five years. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee or as requested by the Department.

9. Availability of Reports

   All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department of Natural Resources and Environmental Control. Monitoring data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in 7 Del. C., §6013.

10. Operator Log

    An operator log must be kept on site at all times. Each spray system section shall be numbered and referred to by number in the operator log. All records and reports shall also be kept in a bound log book onsite at all times and must be made available upon request for review by the Department. This log shall, at a minimum, include the applicable items listed in Section 6.7.3 of the Regulations.

11. Quality Assurance Practices

    The Permittee is required to show the validity of all monitoring data by requiring its laboratory to adhere to quality assurance practices in accordance with Section 6.8.2.4 of the Regulations.

PART III

A. OPERATIONAL REQUIREMENTS

1. Groundwater Requirements

   Operation of the wastewater treatment facility and spray irrigation system shall not cause the quality of Delaware's groundwater resources to be in violation of applicable Federal or State Drinking Water Standards on an average annual basis.

2. Facilities Operation

   The Permittee must properly maintain and operate all structures, pipelines, systems and equipment for collection, treatment control and monitoring which are used by the permittee to achieve compliance with the terms and conditions of the permit. Proper operation and maintenance includes, but is not limited to, effective performance based on designed facility removals, adequate funding, effective management, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures.

3. The spray irrigation fields shall be managed to assure at a minimum that:

   a. Spray irrigation of wastewater shall only occur on fields being prepared for planting or already planted with a crop and shall not occur on fields with crops not actively growing or on voluntary vegetation.

   b. The spray fields shall be maintained in such a manner as to prevent wastewater pooling and/or discharge of wastewater to any surface waters. Should pooled areas become evident, spraying on those areas shall be prohibited until saturated conditions no longer exist.

   c. Aerosols or nuisance odors shall not extend beyond the boundary of the spray irrigation site when treated wastewater is being applied. If odors are produced that are considered to be a public nuisance, the Permittee shall take the necessary steps to eliminate such odors. All action taken shall be reported to the Department in accordance with Part IV.A.4 of this permit.

   d. Erosion controls must be employed to prevent wastewater runoff from the spray irrigation fields. The Permittee must notify the Department immediately if any wastewater runoff occurs.

   e. The spray irrigation field’s crops must be maintained in optimal condition, including any necessary weed management, reseeding, or other vegetative management practices.

   f. Effective vegetative management shall be provided such that crops harvested on the spray irrigation sites are removed from the sites.

   g. Forage crops must be harvested and removed from the irrigation field(s) at least twice a year. Crops harvested must be removed from the irrigation site within six (6) months of harvest.

   h. The wastewater must be applied in a manner such that the application is even and uniform over the irrigation area.

4. Spray irrigation is prohibited when saturated or frozen soil conditions exist.

5. The groundwater mound created by the added infiltration shall at no time reach within two feet of the ground surface in any section of the spray irrigation fields. Should the groundwater mound exceed this limit, the Permittee shall cease all irrigation of wastewater to the affected fields until the groundwater mound recedes to acceptable levels.

6. Connections or additions to the spray irrigation system other than those indicated on the approved plans are prohibited without prior approval from the Department's Groundwater Discharges Section.

7. Roof downspouts, foundation drains, area drains, storm sewers, combined sewers or appurtenances thereto or any sewer or device carrying storm water shall not be connected to the spray irrigation system.

8. The Permittee shall take appropriate measures to protect the spray irrigation system from damage due to sub-freezing conditions.

9. Any leaks shall be reported to the Department and repaired immediately.

10. Signs

    a. Limited Public Access: Signs must be posted on all limited public access spray fields utilized to irrigate treated wastewater to prohibit public contact. The signs must indicate that the water being irrigated is treated wastewater. The signs must be legible. Limited public access sites must have signs posted on the perimeter every 1,000 feet, at a minimum, and at all entry points. Unlimited public access sites must have signs posted at all entry points.

    b. Unlimited Public Access: Unlimited public access sites must have advisory signs posted at all entry points that indicate the site is spray irrigated with treated wastewater. Verbiage should include the following wording: "RECYCLED WASTEWATER – DO NOT DRINK". Alternate verbiage may be used if approved in writing by the Department.

11. Potable ground or surface water may be used for distribution system testing and irrigation to establish vegetation when sufficient treated effluent is not available.

12. Phased Systems

    a. Once an operation permit has been issued and the wastewater flow reaches 80% of the permitted treatment capacity for the constructed phase based on a period of seven (7) consecutive days, the Permittee must submit written notification to the Department. The written notification must include a work plan for construction of the next permitted phase. The Permittee must submit a construction permit application, plans and specifications and Design Engineer Report with applicable fees if the next phase has not yet been permitted or if there are changes to the previously permitted design.

    b. Any flow above the permitted flow for a phase shall not be allowed to be discharged to the system until construction is completed on the following phase and an operating permit has been issued or amended by the Department for the next phase.

    c. Required documents for connecting subdivisions may be found in Section 6.5.10.3.1 of the Regulations.

13. In the event that the permittee installs new monitoring wells or replaces any existing monitoring wells, the Permittee shall submit to the Department's Groundwater Discharges Section new elevation details relative to the common benchmark previously established. Additionally, the permittee shall conduct a groundwater quality sampling program prior to initiation of wastewater disposal activities on the area incorporating the well. The sampling program shall be sufficient to establish representative groundwater quality at each well prior to initiation of the wastewater disposal activities. A minimum of three samples shall be collected at least one month apart and analyzed. A summary report detailing all analyses shall be submitted to the Department's Groundwater Discharges Section prior to initiation of wastewater disposal activities. Analyses shall include the parameters iterated in Section 6.8.1 of the Regulations.

14. The Permittee shall calibrate all flow meters in accordance with the Manufacturer's recommendations. Calibration shall include, but not be limited to influent, effluent, continuous online turbidity and chlorine residual monitors. The calibration documentation must be submitted with the Annual Report in accordance with Part II.B.5 of this permit.

15. The Permittee shall operate and maintain the land treatment system in accordance with the approved Operation and Maintenance Plan (O&M). A copy of the O&M must be on site at all times. The Permittee must maintain the O&M's accuracy and applicability in accordance with both their Permit and the Regulations. In the event of a discrepancy between the O&M and the Permit or Regulations, the requirements of the Permit and the Regulations would govern.

16. At least 2.5 feet of freeboard, measured vertically from the lowest point of the berm, is required for all ponds. The lowest point of the berm must be determined and marked.

    In accordance with page 11-7 of the January 1995 DDR, the facility was construction with 2.5 ft of freeboard in all lagoons.

    The Permittee must notify the Department's Groundwater Discharges Section in writing prior to utilizing the freeboard in any lagoon or immediately upon unexpected encroachment into freeboard. In the event of encroachment into freeboard, Permittee shall contact the Groundwater Discharges Section to coordinate relief measures. In the event of an emergency, Permittee may contact the Department at the telephone numbers cited in Part II.B.2 of this permit; however, written notification must subsequently be provided within 5 days of encroachment.

17. If the facility does not treat sewage and has a storage tank that requires cleanout, and if the permittee intends to land apply material collected from the cleanout onto the spray irrigation field, the Permittee must analyze the material for nutrients and any other applicable parameters of concern as determined by the Groundwater Discharges Section Prior to tank cleanout being performed. Permittee must submit to the Groundwater Discharges Section a report including the results, the frequency and estimated volume of material to be applied, and how and where it will be applied. The report must include a mathematical analysis determining any nitrogen loading from the tank cleaning combined with nitrogen loading from wastewater application will not exceed the allowable nitrogen load.

18. Fencing is required at treatment facilities, pump stations and storage/treatment ponds. Fencing of spray fields is not required.

19. The collection and channelization of irrigated wastewater for purposes other than retreatment is prohibited.

20. Direct application of treated wastewater to drainage ditches, any water bodies, and wetlands is prohibited.

21. Emergency Repairs

Emergency repairs or the replacement of critical “like kind” components of the wastewater treatment facility necessary for the continued operation of the facility may be performed without first obtaining a construction permit from the Department.

A report must be submitted to the Department within five (5) days of completion of the emergency repairs. The report must summarize the nature of the emergency and the repairs performed. All violations must also be reported in accordance with Section 6.5.9.

22. Adverse Impact

The Permittee shall take all steps to minimize any adverse impact to the Waters of the State resulting from operation under this permit. Such steps shall include, but not be limited to, accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge or mitigation of such impacts.

23. Bypassing

The diversion of flow from any portion of the treatment facility’s process flow (including, but not limited to, pretreatment, storage, distribution and land application) necessary to maintain compliance with the terms and conditions of this permit is prohibited unless:

a. The bypass is unavoidable to prevent personal injury, loss of life, severe property damage, or materially adversely affect public health and/or the environment; or

b. There are no alternatives readily available.

The Groundwater Discharges Section must be orally notified within 24 hours after such bypass; and, a written submission regarding the bypass must be submitted within five days of the Permittee's becoming aware of the bypass. Where the need for a bypass is known (or should have been known) in advance, this notification must be submitted to the Groundwater Discharges Section for approval at least ten days prior, or as soon as possible, before the date of bypass.

The treatment facility must be repaired and restored to the permitted design operations process flow.

24. Removed Substances

Solids, sludges, filter backwash or other pollutants removed in the collection, conveyance, or treatment of wastewater shall be disposed of in a manner such as to prevent any pollutant from entering the surface water or groundwater and to comply with applicable federal or state laws and regulations.

25. Power Failures

An alternative power source, which is sufficient to operate the wastewater treatment and disposal facilities, shall be available. If such alternative power source is not available, the Permittee shall halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater facilities.

PART IV

A. MANAGEMENT REQUIREMENTS AND RESPONSIBILITIES

1. Initiation of Facility Operations Notification

   If this permit is for initial operations following construction, the Permittee shall notify the Department in writing within 24 hours of the initiation of operations.

2. Operation Permit Re-Issuance

   At least 180 days before the expiration date of this permit, the Permittee must submit an application for renewal or notify the Department of the intent to cease discharging by the expiration date. In the event that a timely and complete application has been submitted as determined by the Department, and the Department is unable, through no fault of the Permittee, to issue a new permit before the expiration date of this permit, the terms and conditions of this permit are automatically continued and remain fully effective and enforceable until a decision is made on the new application.

3. Change in Discharge

   All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.

   Any anticipated facility expansions, production increases, or process modifications that will result in new, different, or increased discharges of pollutants must be reported in writing to the Department's Groundwater Discharges Section for approval. A new permit may be required.

   Any other activity which would constitute cause for modification or revocation and reissuance of this permit as described in Part V.A.1 of this permit shall be reported to the Groundwater Discharges Section. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

4. Non-compliance Notification

   The Permittee shall report to the Department's Enforcement Section at (800) 662-8802 any unpermitted release or discharge of any contaminant into the air, or a pollutant, including petroleum substances, into surface waters, groundwater, or onto land as soon as the Permittee has knowledge of, or should have had knowledge of, the release or discharge.

   The Permittee shall report to the Groundwater Discharges Section orally within 24 hours from the time the Permittee became aware of any noncompliance that may endanger the public health or the environment by contacting the Groundwater Discharges Section at the telephone numbers cited in Part II.B.2 of this permit.

   If for any reason the Permittee does not comply with, or will be unable to comply with, any effluent limitations or other conditions specified in this permit, the Permittee shall provide the Department with the following information in writing within five days of becoming aware of any actual or potential non-compliance:

   a. A description and cause of the non-compliance with any limitation or condition;

   b. The period of non-compliance including exact dates and times; or, if not yet corrected, the anticipated time the non-compliance is expected to continue; and

c. The steps being taken or planned to reduce, eliminate and/or prevent recurrence of the non-compliant condition.

5. Facility and Construction Changes

The Permittee shall submit a written report to the Department for review and approval, of any changes to the facility or construction of the system within the following time periods:

a. Thirty days before any planned activity, physical alteration to the permitted facility or addition to the permitted facility if that activity, alteration or addition would result in a change in information that was previously submitted to the Department;

b. Thirty days before any anticipated change which would result in noncompliance with any permit condition or the regulations; or

b. Immediately after the Permittee becomes aware of relevant facts omitted from, or incorrect information submitted in, a permit application or report to the Department.

6. Right of Entry

The permittee shall allow the Department entry and access, consistent with 7 Del.C. Ch. 60, to:

a. Enter the permitted facility.

b. Inspect any records that must be kept under the conditions of the permit.

c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.

d. Sample or monitor for the purpose of assuring permit compliance of any substance or any parameter at the facility.

7. Permit Transferability

Permits may be transferred to a new owner or operator. The permittee must notify the Department by requesting a change of ownership of the permit before the date of transfer. The transfer must be consistent with any notarized legal documents and/or CPCN required by the Regulations. The legal documentation must be provided with the application. The application must be received 30 days before the transfer.

a. No person shall transfer a permit from one (1) person to another unless 30 days written notice is given to the Department, indicating the transfer is agreeable to both persons, and approval of such transfer is obtained in writing from the Department, and any conditions of the approval of such transfer is obtained in writing from the Department, and any conditions of the transfer approved by the Department are complied with by the transferor and the transferee.

b. The notice to the Department shall contain a written agreement between the transferor and the transferee, indicating the specific date of proposed transfer of permit coverage and acknowledging responsibilities of current and new permittees for compliance with and liability for the terms and conditions of this permit. The notice shall be signed by both the transferor and the transferee.

PART V

A. PROVISIONS

1. Permit Revocation

   The Department may revoke a permit if, among other things, the permittee violates any permit condition, these regulations, fails to pay applicable Departmental fees, obtains the permit by misrepresentation or fails to fully disclose all relevant facts.

   Except in cases of emergency, the Department shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within 20 days of receipt of the notice by the permittee, unless within that time the permittee requests an administrative hearing in writing.

   The Department shall notify the permittee in writing of any revocation hearing at least 20 days prior to the date set for such hearing.

   If the Department finds the public health, safety or welfare requires emergency action, the Department shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Department shall provide the permittee a revocation hearing.

2. Permit Modifications/Amendments

   In consultation with the permittee, the Department may modify or amend an existing permit provided that the modifications would not result in an increased impact or risk to the environment or to public health.

3. State Laws

   This permit shall not be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

4. Property Rights

   The issuance of this permit does not convey any property rights of either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

5. Severability

   The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit, to any circumstances is held invalid; the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

6. This permit does not relieve the Permittee of complying with any applicable Federal, State or local regulations.

7. In the event that the Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems or applicable federal regulations are revised, this permit may be opened and modified accordingly after notice and opportunity for a public hearing.

8. This permit supersedes all previous spray irrigation operation permits issued to the Permittee.

Part VI

A. AMENDMENTS TO STATE PERMIT DEN 359051-03 ISSUED SEPTEMBER 14, 2018

1. Amended October 16, 2018

Page 1

- Included Amended Date at top right-hand corner

Page 3

- Updated Site Map to Include Local IDs

Part I

G.1 Amended to reflect 1995 design documentation

2. Amended November 17, 2020 in accordance with October 9, 2020 application for transfer of ownership

Page 1

- Included Amended Date at top right-hand corner
- Changed Permittee from Cool Branch Associates, LLC to Hometown Village of Cool Branch, LLC – Hometown America
- Changed Facility name from Cool Branch Mobile Home Park Wastewater Treatment Facility to Village of Cool Branch - Wastewater Treatment and Disposal Facility
- Changed name of mobile home park from Cool Branch to Village of Cool Branch

Page 2

- Changed Facility name on Location map from Cool Branch Mobile Home Park Wastewater Treatment Facility to Village of Cool Branch - Wastewater Treatment and Disposal Facility

Page 3

- Updated Site Map:
    i. Changed Facility name on Location map from Cool Branch Mobile Home Park Wastewater Treatment Facility to Village of Cool Branch - Wastewater Treatment and Disposal Facility
    ii. Added Lysimeters that were installed in accordance with Part I.F.1.a Schedule of Compliance and in accordance with June 5, 2019 completion letter from Mill Brook Engineering

Part I.A - Page 5

- Changed name of mobile home park from Cool Branch to Village of Cool Branch

Part I.B - Page 5

- Added number 11 in documentation: October 9, 2020 application for transfer of ownership
- Changed number 12 in documentation (formerly number 11) - Changed Facility name from Cool Branch Mobile Home Park Wastewater Treatment Facility to Village of Cool Branch - Wastewater Treatment and Disposal Facility

Part I.C - Page 6

- Changed name of mobile home park from Cool Branch to Village of Cool Branch

Part II.A.5 - Page 15 – Lysimeter Monitoring Requirements

- Added verbiage requiring lysimeter monitoring results to be reported utilizing the State of Delaware Well Identification Tag
- Added DNREC IDs for Lys-1 and Lys-2