

UIC PERMIT

issued to

Town of New Fairfield Board of Education
4 Brush Hill Road
New Fairfield, CT 06812

Location Address:

Meeting House Hill School & Consolidated School
24 Gillotti Road
New Fairfield, CT 06812

Permit ID: UI0000356

Permit Expires: Ten years from date of issuance

Watershed: Ball Pond Brook

Basin Code: 6402

SECTION 1: GENERAL PROVISIONS

- (A) This permit is reissued in accordance with section 1421 of the Federal Safe Drinking Water Act 42 USC 300h et. seq., section 22a-430 of Chapter 446k, Connecticut General Statutes (“CGS”), and Regulations of Connecticut State Agencies (“RCSA”) adopted thereunder, as amended.
- (B) Town of New Fairfield Board of Education, (“Permittee”), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(11)(C), (D), (E) and (F), (k)(3) and (4), and (l)(2) of section 22a-430-3.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty to Comply
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (l) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply
- (c) Application Requirements

- (d) Preliminary Review
 - (e) Tentative Determination
 - (f) Draft Permits, Fact Sheets
 - (g) Public Notice, Notice of Hearing
 - (h) Public Comments
 - (i) Final Determination
 - (j) Public Hearings
 - (k) Submission of Plans and Specifications. Approval.
 - (l) Establishing Effluent Limitations and Conditions
 - (m) Case by Case Determinations
 - (n) Permit issuance or renewal
 - (o) Permit Transfer
 - (p) Permit revocation, denial or modification
 - (q) Variances
 - (r) Secondary Treatment Requirements
 - (s) Treatment Requirements for Metals and Cyanide
 - (t) Discharges to POTWs - Prohibitions
- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action, including but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157 of the CGS.
- (E) The Permittee shall comply with Section 22a-416-1 through Section 22a-416-10 of the RCSA concerning operator certification.
- (F) No provision of this permit and no action or inaction by the Commissioner of Energy & Environmental Protection (“Commissioner”) shall be construed to constitute an assurance by the Commissioner that the actions taken by the Permittee pursuant to this permit will result in compliance or prevent or abate pollution.
- (G) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner. To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner at least thirty (30) days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure, by the transferee, to obtain the Commissioner’s approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (H) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (I) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the RCSA.
- (J) On or before the 10-year anniversary of the date of issuance of this permit, the Permittee shall submit for the Commissioner’s review, a comprehensive engineering report prepared by a professional engineer licensed to practice in Connecticut that evaluates the performance and operation of the on-site sewage treatment and disposal system. Such report shall include a detailed summary of the discharge monitoring reports. A physical inspection of the system shall be performed in the presence of Department of Energy

and Environmental Protection (“DEEP” or “Department”) staff. Prior to conducting the comprehensive review, the Permittee shall contact the Bureau of Materials Management and Compliance Assurance.

SECTION 2: DEFINITIONS

(A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and sections 22a-430-3(a) and 22a-430-6 of the RCSA.

(B) In addition to the above, the following definitions shall apply to this permit:

“Annual”, in the context of a sampling frequency, shall mean the sample must be taken in the month of permit issuance.

“Average Monthly Limit” means the highest allowable average of all grab samples taken during any calendar month.

“Maximum Concentration”, in the context of this permit, is defined as the maximum concentration at any time as determined by a grab sample.

“Quarterly”, in the context of a sampling frequency, shall mean sampling is required during each calendar quarter ending on the last day of March, June, September and December.

“3 times per year”, in the context of a maintenance frequency, shall mean the maintenance must be performed at least 3 times during the period of May to November.

“Twice per month”, when used as a sample frequency, shall mean two samples per calendar month collected no less than 12 days apart.

“Twelve Month Rolling Average”, in the context of this permit, is defined as the average monthly concentration of the current month’s samples averaged with the average monthly concentration from each of the previous eleven months.

SECTION 3: COMMISSIONER’S DECISION

(A) The Commissioner has made a final determination and found that the continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on Application No. 201404381 for permit reissuance received on May 5, 2014 and the administrative record established in the processing of that application.

(B) The Commissioner hereby authorizes the Permittee to discharge a maximum flow of eleven thousand (11,000) gallons per day of domestic sewage in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner’s authorized agent for the discharges and/or activities authorized by, or associated with, this permit as follows:

- (1) From the issuance of this permit through and including the last day of the first calendar month of such issuance, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of Permit No. UI0000356, issued by the Commissioner to the Permittee on October 22, 2004, the previous application submitted by the Permittee on July 26, 1999, and all modifications and approvals issued by the Commissioner or the Commissioner’s authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. UI0000356, issued by the Commissioner to the Permittee on October 22, 2004.

- (2) Beginning on the first day of the month following the issuance of this permit and continuing until this permit expires or is modified or revoked, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of this permit, Application No. 201404381 received by the Department on May 5, 2014, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with, this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions that may be authorized under the Federal Safe Drinking Water Act or the Connecticut General Statutes or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Safe Drinking Water Act or Connecticut General Statutes or regulations adopted thereunder, which are then applicable.

SECTION 4: EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The use of any sewage system additive as defined in section 22a-460(g) of the CGS is prohibited unless such additive complies with section 22a-461 of the CGS. The Commissioner in no way certifies the safety or effectiveness of any sewage system additive.
- (B) Oils, greases, industrial or commercial wastes, toxic chemicals, or other substances that will adversely affect the operation of the subsurface sewage treatment and disposal system, or, which may pollute ground or surface water, shall not be discharged to the subsurface sewage treatment and disposal system.
- (C) The Permittee shall assure that groundwater affected by the subject discharge shall conform to the Connecticut Water Quality Standards.
- (D) The Permittee shall operate and maintain all processes as installed in accordance with the approved plans and specifications. This includes but is not limited to all: pumping systems, septic tanks, equalization tanks, chemical feed systems, Bioclere Tanks, sand filter bed or any other process equipment necessary for the optimal removal of pollutants. The Permittee shall neither bypass nor fail to operate any of the approved equipment or processes without the written approval of the Commissioner.
- (E) The discharge shall not exceed and shall otherwise conform to the specific terms and conditions listed in this permit. The discharge is restricted by, and shall be monitored in accordance with the Table(s) A through C, which are incorporated into this permit as Attachment 1.
- (F) The pH of the discharge shall not be less than 6.0 nor greater than 9.0 Standard Units at any time and shall be monitored in accordance with this permit. The Permittee shall report pH values, specifically maximum and minimum, for each day of sample collection.
- (G) The Permittee shall maintain at the facility a record of the total flow for each day of discharge and shall report on the discharge monitoring report the total flow and number of hours of discharge for the day of sample collection and the average daily flow for each sampling month.
- (H) All samples shall be comprised of only those wastewaters described in this schedule, therefore, samples shall be taken prior to combination with wastewaters of any other type and after all approved treatment units, if applicable. All samples taken shall be representative of the discharge during standard operating conditions.
- (I) In cases where limits and sample type are specified but sampling is not required, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Energy and Environmental Protection personnel, the Permittee, or other parties.

- (J) Unless a different classification of certified operator is required under a separate written approval issued by the Commissioner, the Permittee shall ensure that the wastewater treatment facility is operated by a person with a valid and effective certification in the State of Connecticut, at a minimum, as a facility Class II operator pursuant to C.G.S. 22a-416(d) and the regulations adopted thereunder. The Permittee shall ensure that the wastewater treatment facility is operated by such an operator with such qualifications throughout the entire life of the wastewater treatment facility.
- (K) The Permittee shall monitor, inspect and maintain the treatment facilities in accordance with Table D, which is incorporated into this permit as Attachment 2.
- (L) The Permittee shall perform ground water monitoring in accordance with Table E, which is incorporated into this permit as Attachment 3.
- (M) The monitoring and sampling required within this permit is the minimum for reporting purposes only. More frequent monitoring and sampling of the treatment system may be required to operate the facility to obtain acceptable results for the parameters being monitored as required by the Operation and Maintenance Manual approved by the Commissioner.

SECTION 5: SAMPLE COLLECTION AND HANDLING, ANALYTICAL TECHNIQUES, AND REPORTING REQUIREMENTS

- (A) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved by the Environmental Protection Agency pursuant to 40 CFR 136 unless an alternative method has been approved in writing in accordance with 40 CFR 136.4 or as provided in section 22a-430-3(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified in this permit.
- (B) If any sample analysis indicates that an effluent limitation specified in Section 4 of this permit has been exceeded, a second sample of the effluent shall be collected and analyzed for the parameter(s) in question and the results shall be reported to the Commissioner within thirty (30) days of the exceedance. Resampling for a permit violation is in addition to routine required sampling.
- (C) The Permittee shall enter the results of chemical analysis and treatment facilities monitoring and maintenance required by Section 4 on a Discharge Monitoring Report (DMR) provided by this office and shall submit such DMR to the Bureau of Materials Management and Compliance Assurance at the address below. Except for continuous monitoring, any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136 or other methods approved by the Commissioner shall also be included on the DMR, or as an attachment, if necessary. The report shall also include a detailed explanation of each violation of the limitations specified, the corrective actions performed, and a schedule for completing any necessary remaining corrective action. The DMR shall be received at this address by the last day of the month following the month in which the samples are taken.

**Attn: DMR Processing
Connecticut Department of Energy and Environmental Protection
Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127**

- (D) If this permit requires monitoring of a discharge on a calendar basis (e.g. Monthly, quarterly, etc.) but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must

submit the DMR as scheduled, indicating "NO DISCHARGE". For those permittees whose required monitoring is discharge dependent (e.g. per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.

(E) NetDMR Reporting Requirements:

Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may report all chemical analysis, monitoring and maintenance data, and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit discharge monitoring reports (DMRs) and other required reports through a secure internet connection. Unless otherwise approved in writing by the Commissioner, no later than one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

(a) Submittal of NetDMR Subscriber Agreement:

On or before thirty (30) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee's discharge monitoring reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at deep.netdmr@ct.gov and initiate the NetDMR subscription process for electronic submission of Discharge Monitoring Report (DMR) information. Information on NetDMR is available on the Department's website at www.ct.gov/deep/netdmr. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.

(b) Submittal of Reports Using NetDMR:

Unless otherwise approved by the Commissioner, on or before one-hundred and eighty (180) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit DMRs and reports required under this permit to the Department using NetDMR in satisfaction of the DMR submission requirement in paragraph (C) of this Section of this permit. DMRs shall be submitted electronically to the Department no later than the last day of the month following the completed reporting period. All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs to the Department. The Permittee shall also electronically file any written report of non-compliance described in paragraph (B) of this Section and in the following Section of this Permit as an attachment in NetDMR. NetDMR is accessed from: <https://netdmr.epa.gov/netdmr/public/home.htm>.

(c) Submittal of NetDMR Opt-Out Requests:

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting DMRs and reports, the Commissioner may approve the submission of DMRs and other required reports in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing DMRs and other reports using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department. All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

**Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127**

(d) Non-Electronic or Hard-Copy Submission:

The results of chemical analysis and treatment facilities monitoring that are not required to be submitted electronically under Section 5 shall be submitted in hard-copy form on a DMR. Such DMRs and other reports not required to be submitted electronically shall be reported to the Bureau of Materials Management and Compliance Assurance at the following address.

**Attn: DMR Processing
Connecticut Department of Energy & Environmental Protection
Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127**

(e) Copies of all hard-copy DMRs shall be submitted concurrently to the local Health Department.

(f) Copies of all hard-copy DMRs shall be submitted concurrently to the local Water Pollution Control Authority (hereinafter "WPCA").

SECTION 6: COMPLIANCE SCHEDULE

- (A) On or before seven (7) days after issuance of this permit, the Permittee shall record on the land records of the Town of New Fairfield a document indicating the location of the zone of influence created by the subject discharge, as reflected in the application and approved plans and specifications for this permit. On or before one (1) month after issuance of this permit, the Permittee shall submit written verification to the Commissioner that the approved document indicating the location of the zone of influence created by the subject discharge as reflected in the application for this permit has been recorded on the land records in the Town of New Fairfield.
- (B) On or before seven (7) days after issuance of this permit, the Permittee shall record a copy thereof on the land records in the Town of New Fairfield. On or before one (1) month after issuance of this permit, the Permittee shall submit written verification to the Commissioner that this permit has been recorded on the land records in the Town of New Fairfield.
- (C) Every two (2) years, on or before the anniversary date of the issuance of this permit, the Permittee shall submit the results of a detailed permit compliance audit to the Commissioner. Such audits shall be performed within sixty (60) days prior to the anniversary date. The compliance audits shall be performed by a qualified professional engineer licensed to practice in Connecticut with the appropriate education, experience and training that is relevant to the work required.

Each audit shall evaluate compliance with all permit terms and conditions for the preceding two-year period. The evaluation shall review all pertinent records and documents as necessary, including Discharge Monitoring Reports (DMRs), laboratory reports, operations and maintenance plans, performance logs/records, equipment specifications, maintenance schedules, engineering drawings, and spare parts inventory.

Each audit report shall include a description of all records and documents used in the evaluation, a summary of compliance with permit terms and conditions, and detailed descriptions of all remedial actions taken or proposed to address each violation or deficiency discovered.

A copy of each audit shall be submitted concurrently to the local WPCA and to the local Health Department.

This permit is hereby issued on

Katherine S. Dykes
Commissioner
Department of Energy and Environmental Protection

cc: Local Health Dept.
DMR

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ATTACHMENT 1

TABLE A				
Discharge Serial No. 302-1			Monitoring Location: G	
Wastewater Description: Domestic Sewage Influent to Treatment System				
Monitoring Location Description: Equalization Tank				
Average Daily Flow: 7,330 gallons per day			Maximum Daily Flow: 11,000 gallons per day	
INSTANTANEOUS MONITORING				
Parameter	Units	Average Monthly Limit	Sample Type	Sample Frequency
Biochemical Oxygen Demand	mg/l	---	Grab	Twice per month
Total Suspended Solids	mg/l	---	Grab	Twice per month
Total Kjeldahl Nitrogen	mg/l	---	Grab	Twice per month
Total Phosphorus	mg/l	---	Grab	Twice per month
pH	SU	---	Grab	Twice per month
Oil & Grease	mg/l	---	Grab	Twice per month
ADDITIONAL NOTES:				
1. “---” in the limits column on this monitoring table means a limit is not specified, but monitoring is required and a value must be reported on the DMR.				

TABLE B				
Discharge Serial No. 302-1			Monitoring Location: J	
Wastewater Description: Effluent Intermediate Process				
Monitoring Location Description: Clearwell Tank				
Average Daily Flow: 7,330 gallons per day			Maximum Daily Flow: 11,000 gallons per day	
INSTANTANEOUS MONITORING				
Parameter	Units	Average Monthly Limit	Sample Type	Sample Frequency
pH	SU	---	Grab	Weekly
Temperature	° F	---	Grab	Weekly
Alkalinity	mg/l	---	Grab	Weekly
Turbidity	NTU	---	Grab	Weekly
ADDITIONAL NOTES:				
1. “---” in the limits column on this monitoring table means a limit is not specified, but monitoring is required and a value must be reported on the DMR.				

TABLE C					
Discharge Serial No. 302-1			Monitoring Location: 1		
Wastewater Description: Pretreated Domestic Sewage Effluent					
Monitoring Location Description: Final effluent					
FLOW/TIME BASED MONITORING					
Parameter	Units	Average Daily Flow Limit	Maximum Daily Flow Limit	Sample Type	Sample Frequency
Flow Rate (Average daily) ¹	gpd	7,330	11,000	Daily flow	Continuous
INSTANTANEOUS MONITORING					
Parameter	Units	Average Monthly Limit	Maximum Concentration	Sample Type	Sample Frequency
Biochemical Oxygen Demand	mg/l	20	30	Grab	Twice per month
Total Suspended Solids	mg/l	20	30	Grab	Twice per month
Total Nitrogen	mg/l	10 ²	---	Grab	Twice per month
Ammonia	mg/l	---	---	Grab	Twice per month
Nitrate Nitrogen	mg/l	---	---	Grab	Twice per month
Nitrite Nitrogen	mg/l	---	---	Grab	Twice per month
Total Kjeldahl Nitrogen	mg/l	---	---	Grab	Twice per month
Total Phosphorus	mg/l	---	---	Grab	Twice per month
pH	SU	---	---	Grab	Twice per month
Methanol	mg/l	---	---	Grab	Twice per month
Alkalinity	mg/l	---	---	Grab	Twice per month
Oil & Grease	mg/l	---	---	Grab	Twice per month
Turbidity	NTU	---	---	Grab	Twice per month
FOOTNOTES:					
1. For this parameter, the Permittee shall maintain at the facility a record of the total flow for each day of discharge and shall report on the DMR the Average Daily Flow and the Maximum Daily Flow for each month.					
2. Limit is based on a twelve month rolling average.					
ADDITIONAL NOTES:					
1. “---” in the limits column on this monitoring table means a limit is not specified, but monitoring is required and a value must be reported on the DMR.					

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ATTACHMENT 2

TABLE D INSPECTION, MONITORING AND MAINTENANCE REQUIREMENTS	
Discharge Serial No.: 302-1	Monitoring Location: S
Wastewater Description: Domestic Sewage	
Average Daily Flow: 7,330 gallons per day	Maximum Daily Flow: 11,000 gallons per day
Inspection, Monitoring, or Maintenance	Minimum Frequency
Depth of sludge in septic tank[s]	During pump-out
Pump out septic tank [s]	Annually
Pump out grease trap[s]	Quarterly
Mechanical inspection of septic tank effluent filter	During pump-out
Clean septic tank effluent filter	During pump-out
Mechanical inspection of pump station[s]	Monthly/Quarterly
Pump out pump chamber[s]	Annually
Pump out trash trap	Quarterly
Pump out equalization tank	Annually
Test run of emergency generator	Monthly/Quarterly
Pump out holding tank	As needed
Water meter readings of water usage	Weekly
Visual inspection of BioClere System	Monthly
Visual inspection of anoxic chambers	Monthly
Visual inspection of denitrification filter	Monthly
Visual inspection of final settling tank	Monthly
Mechanical inspection of alarms	Monthly
Mechanical inspection of blowers	Monthly
Mechanical inspection of methanol feed system	Monthly
Mechanical inspection of alkalinity feed system	Monthly
Visual inspection of distribution chambers	Quarterly
Visual inspection of surface condition of leaching field(s)	Quarterly
Depth of ponding in leaching field(s)	Quarterly
Mow grass over leaching field(s)	3 times per year
ADDITIONAL NOTES:	
<ol style="list-style-type: none"> 1. All inspection, monitoring, and maintenance required in this table shall be reported annually by the end of each January as an attachment to the December DMR. 2. The New Fairfield Health Department Sanitarian shall be notified at least one week prior to pumping of septic tanks and grease traps. Verification of all pump outs shall be attached to the monitoring report and a copy of the report shall be sent to the New Fairfield Health Department Director of Health. 	

ATTACHMENT 3

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TABLE E GROUNDWATER MONITORING			
Discharge Serial No. 302-1		Monitoring Location: GW	
Groundwater Monitoring Location No.: MW1, MW2 and MW3		Description: Downgradient monitoring well	
Parameter	Units	Minimum Frequency of Sampling	Sample Type
Fecal Coliform	col/100ml	Quarterly	Grab
Groundwater Depth (Standard depth below grade)	Ft	Quarterly	Instantaneous
Ammonia Nitrogen	mg/l	Quarterly	Grab
Nitrate Nitrogen	mg/l	Quarterly	Grab
Nitrite Nitrogen	mg/l	Quarterly	Grab
Total Kjeldahl Nitrogen	mg/l	Quarterly	Grab
Total Nitrogen	mg/l	Quarterly	Grab
pH	S.U.	Quarterly	Instantaneous
Total Dissolved Phosphorous	mg/l	Quarterly	Grab

DATA TRACKING AND TECHNICAL FACT SHEET

APPLICATION No.: 201404381

PERMIT No.: UI0000356

DISCHARGER NAME AND ADDRESS

APPLICANT/PERMITTEE: The Town of New Fairfield Board of Education

MAILING ADDRESS: 4 Brush Hill Road, New Fairfield CT, 06812

CONTACT PERSON: Phil Ross

LOCATION ADDRESS: Meeting House Hill School, 24 Gillotti Road, New Fairfield, CT, 06812

PERMIT TYPE

New () Reissuance (X) Modification (X) Subsection-e ()

PERMIT DURATION

5 YEAR () 10 YEAR (X) 30 YEAR ()

OWNERSHIP CODE

Private () Federal () State () Municipal (town only) (X) Other public ()

DISCHARGE CATEGORIZATION

Point () Non-point (X) GIS # _____

NPDES () Pretreat (X) Ground Water (UIC) (X) Ground Water (Other) ()

Major () Significant Minor () Minor (X)

UIC PERMIT INFORMATION

Total Wells 1 Well Type 5W12

DEEP STAFF ENGINEER/ANALYST

Lauren Jones

NATURE OF BUSINESS GENERATING DISCHARGE

Domestic sewage generated by the Town of New Fairfield's Meeting House Hill School and Consolidated Schools.

PROCESS AND TREATMENT DESCRIPTION (by DSN) AT(X) RECYCLE ()

DSN 301-1 represents the discharge from the existing alternative sewage treatment system consisting of: septic tank(s), equalization tank(s), settling tank, pump chambers, two dual train Bioclere Wastewater Treatment Systems ("Bioclere System"), biological activated sand filter and a pressure dosed engineered leaching system. The Bioclere System is a fixed film biological treatment process with a current permitted process capacity of 11,000 gallons per day. There are two parallel treatment trains, each with two stages of treatment for nutrient removal. Pretreated effluent from the Bioclere System is discharged to an engineered leaching field for further nutrient removal.

COMPLIANCE SCHEDULE YES (X) NO ()

Pollution Prevention () Treatment Requirement () Water Conservation ()

Permit Steps () Water Quality Requirement () Remediation ()

Audit Language (X) Other (X)

DATA TRACKING AND TECHNICAL FACT SHEET

RESOURCES USED TO DRAFT PERMIT

- Federal Effluent Limitation Guideline 40CFR
name of category
- Performance Standards
- Federal Development Document
name of category
- Treatability Manual
- Department File Information
- Connecticut Water Quality Standards
- Anti-degradation Policy
- Coastal Management Consistency Review Form
- Other – Explain

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- Best Judgement (See Other Comments)
- Case by Case Determination (See Other Comments)

OTHER COMMENTS

NOVWRSA09008 was issued on September 14, 2009 for failure to:

- submit DMRs for April through June 2009;
- submit complete results of discharge flow monitoring from January 2008 to September 2009;
- monitor discharge in a manner to assure compliance with permit limitations from January 2008 to September 2009;
- Violations of effluent limits from January 2008 to September 2009;
- Violations of flow limitations for February, March, September, November and December of 2008 and February of 2009

A compliance statement was submitted on October 7, 2009 by the Town of New Fairfield Health & Sanitation Department.

In 2014 and 2016 a field inspection was conducted and identified deficiencies in the operation of the system. The following repairs have been made to ensure proper operation and function of the system:

- The exceedances in permitted design flow have been attributed to stormwater infiltration; the town had made several attempts at videoing the system to identify the source of the stormwater infiltration and have been unsuccessful at locating the source. To improve flow equalization and comply with design flow limits, two four thousand five hundred (4,500) gallon equalization tanks and an eleven thousand (11,000) gallon equalization tank have been installed to regulate the flows during intense rainfall events and periods of peak flows experienced by the schools.
- The BOD exceedances have been attributed to the operator adding too much carbon (in the form of methanol) to the system and it is not able to be used to the de-nitrification process. Programmable Logic Controls (“PLC”) and a human interface module have been added to control the addition of methanol rather than manual addition by the operator.

DATA TRACKING AND TECHNICAL FACT SHEET

- The phosphorous exceedances have been attributed to the system not originally being designed for phosphorous removal. The system has been redesigned to allow the ability for a flocculent to be added and lower the phosphates in the effluent prior to discharging to the leaching system.
- The nitrogen exceedances have been attributed to improper operation (excess chemical additions, fluctuating system flow rates and improper nitrification). These have been addressed through the installation of: additional flow equalization, a new de-nitrification sand filter and a PLC.
- Clearwell Tank – previously housed a Dyna sand filter that has been replaced with an Biologically Active Filter (BAF from Amphidrome) sand filter for additional de-nitrification.
- The UV disinfection chamber has been converted back to a clearwell tank to allow for automatic system backwashes to be performed.
- The force main from Consolidated School was moved to connect to equalization tank no.2 instead of equalization tank no. 4 to provide for better mixing of wastewastes from both schools and additional settling time.
- Replacement of several lift rail systems and pumps within the structures of the system.

NOVWRSS17002 was issued in May 4, 2017 for exceedances in total nitrogen limits for 2014, 2015 and 2016. A compliance statement dated August 8, 2017 was submitted stating that they will be installing three new groundwater monitoring wells that will be located downgradient of the existing wells and up-gradient of the environmental point of concern (wetlands). Three months of monitoring data will be used to re-evaluate and confirm adequate system performance. Groundwater monitoring data was submitted on March 14, 2018 demonstrating that the system is properly operating and complying with the permit limits.

PERMIT FEES

Discharge Code 312000a Representing DSN 302-1 Annual Fee \$555 (50% muni discount)

PROJECT HISTORY

Application received on May 5, 2014

Notice of Sufficiency signed May 15, 2014



**NOTICE OF TENTATIVE DECISION
INTENT TO REISSUE AND MODIFY A STATE PERMIT AND AN UNDERGROUND
INJECTION CONTROL PERMIT FOR THE FOLLOWING DISCHARGE
INTO THE WATERS OF THE STATE OF CONNECTICUT**

TENTATIVE DECISION

The Commissioner of Energy and Environmental Protection hereby gives notice of a tentative decision to reissue and modify a permit based on an application submitted by the **Town of New Fairfield Board of Education** ("the applicant") under section 22a-430 of the Connecticut General Statutes for a permit to discharge into the waters of the state.

In accordance with applicable federal and state law, the Commissioner has made a tentative decision that continuance of the existing system to treat the discharge would protect the waters of the state from pollution and the Commissioner proposes to issue a permit for the discharge to the groundwaters in the Ball Pond Brook watershed.

The proposed permit, if issued by the Commissioner, will require that all wastewater be treated to meet the applicable effluent limitations, and periodic monitoring to demonstrate that the discharge will not cause pollution.

APPLICANT'S PROPOSAL

The Town of New Fairfield Board of Education proposes to continue to discharge a maximum of 11,000 gallons per day of domestic sewage wastewaters through a modified alternative sewage treatment system to the groundwaters in the Ball Pond Brook watershed from operations at Meeting House Hill and Consolidated Schools. Such modifications to the alternative sewage treatment system include: additional equalization to accommodate peak flows; the installation of a new sand filter; the installation of programmable logic controls; and chemical additions to improve pollutant removal.

The name and mailing address of the permit applicant are: **Town of New Fairfield Board of Education, 4 Brush Hill Road, New Fairfield, CT 06812**

The activity takes place at: **Meeting House Hill School, 24 Gillotti Road, New Fairfield, CT 06812**

REGULATORY CONDITIONS

Type of Treatment: Meeting House Hill School is currently served by an existing alternative sewage treatment system consisting of: septic tank(s), equalization tank(s), settling tank, pump chambers, a Bioclere Wastewater Treatment System, biologically activated sand filter and an engineered leaching system. The Bioclere System utilizes a fixed film biological treatment process; treated effluent from the Bioclere System discharges to an engineered leaching system:

COMMISSIONER'S AUTHORITY

The Commissioner of Energy and Environmental Protection is authorized to approve or deny such permits pursuant to section 22a-430 of the Connecticut General Statutes and the Water Discharge Permit Regulations (section 22a-430-3 and 4 of the Regulations of Connecticut State Agencies), and section 1421 of the Federal Safe Drinking Water Act 42 USC et. seq.

INFORMATION REQUESTS

The application has been assigned the following numbers by the Department of Energy and Environmental Protection. Please use these numbers when corresponding with this office regarding this application.

APPLICATION NO. 201404381 PERMIT ID NO. UI0000356

Interested persons may obtain copies of the application from Phil Ross, Town of New Fairfield Board of Education, 4 Brush Hill Road, New Fairfield, CT 06812, Phone: (203) 994-0091.

The application is available for inspection by contacting Lauren Jones (860) 424-3155, 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.

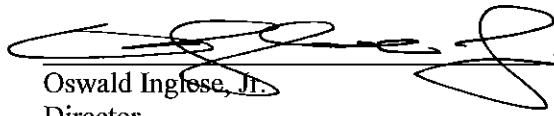
Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the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

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 30 days of this public notice. Written comments should be directed to Lauren Jones, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127. 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 30 days prior to the hearing.

Petitions for a hearing 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. Original petitions must be *mailed or delivered* to: DEEP Office of Adjudications, 79 Elm Street, 3rd floor, Hartford, CT, 06106-5127. Petitions cannot be sent by fax or email. Additional information can be found at www.ct.gov/deep/adjudications.

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action and Equal Opportunity Employer that is committed to complying with the Americans with Disabilities Act. To request an accommodation contact us at (860) 418-5910 or deep.accommodations@ct.gov.


Oswald Ingfese, Jr.
Director
Water Permitting and Enforcement Division
Bureau of Materials Management and Compliance Assurance

Dated: *April 3, 2019*