



Vermont Department of Environmental Conservation

Watershed Management Division
1 National Life Drive, Main-2
Montpelier VT 05620-3522

Agency of Natural Resources

[phone] 802-828-1535
[fax] 802-828-1544

May 5, 2014

Arlington School District
Attn: Karen Gallese
530-A East Arlington Road
Arlington, VT 05250

RE: Discharge Permit No. 3-1372: Arlington School Wastewater Treatment Facility

Dear Ms. Gallese

Enclosed is your copy of Discharge Permits No. 3-1372 which has been signed on behalf of the Commissioner of the Department of Environmental Conservation. This permit authorizes the discharge of treated and disinfected wastewater from the Arlington School Wastewater Treatment Facility to Warm Brook.

Please review the permit carefully and make note of the effluent limitations, monitoring requirements, and other special conditions. As proposed in the draft which was provided for comment, since the treatment facility has reached its 20 year design life, the permit requires an Engineering Evaluation be conducted on the facility and a report submitted by September 30, 2106. Also, the permit requires quarterly sampling of the discharge for Total Phosphorus and Total Nitrogen to assess its potential to contribute to eutrophication in Warm Brook.

Since we did not receive any comments on this draft permit during the public notice period, the final permit is unchanged from the draft that was placed on public notice for comment.

If there are any questions regarding this permit, please contact Randy Bean at our office.

Sincerely,

A handwritten signature in black ink, appearing to read "Ernest F. Kelley".

Ernest F. Kelley, Manager
Wastewater Management Program

attachments

cc

Jeff Tornyos, Tornyos Operations, Inc.
Jeff Fehrs, VT DEC WSMD

AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
ONE NATIONAL LIFE DRIVE, MAIN BUILDING, 2nd FLOOR
MONTPELIER, VT 05620-3522

Permit No.: 3-1372
File No: 02-01
PIN: RU98-0051
NPDES No.: VT0022934

Name of Applicant: Arlington School District
530-A East Arlington Rd
Arlington, VT 05250

Expiration Date: March 31, 2019

DISCHARGE PERMIT


In compliance with the provisions of the Vermont Water Pollution Control Act as amended (10 V.S.A. Chapter 47 §1251 et seq), the Vermont Water Pollution Control Permit Regulations, and the Federal Clean Water Act, as amended (33 U.S.C. §1251 et seq), the Arlington School District, Vermont (hereinafter referred to as the "permittee") is authorized by the Secretary, Agency of Natural Resources, to discharge from the Arlington School Wastewater Treatment Facility to Warm Brook in accordance with the following general and special conditions.

This permit shall become effective on the date of signing.

State of Vermont
Agency of Natural Resources

David K. Mears, Commissioner
Department of Environmental Conservation

BY:



Digitally signed by Peter LaFlamme
DN: cn=Peter LaFlamme, o=VTDEC,
ou=Watershed Management Division,
email=pete.laflamme@state.vt.us, c=US
Date: 2014.05.02 14:36:14 -04'00'

Peter LaFlamme, Director
Watershed Management Division

I. SPECIAL CONDITIONS

A. EFFLUENT LIMITS

- From the date of signing through March 31, 2019, the permittee is authorized to discharge from S/N 001 - outfall, the Arlington School Wastewater Treatment Facility to Warm Brook, an effluent whose characteristics shall not exceed the values listed below:

DISCHARGE LIMITATIONS							
Effluent Characteristic	Monthly Average	Weekly Average	Maximum Day	Monthly Average	Weekly Average	Maximum Day	Instantaneous Maximum
 (lbs / day) (Concentration)			
Flow (Annual Avg)				0.018 MGD			
Biochemical Oxygen Demand, 5-day, 20° C	4.5	6.7		30 mg/l	45 mg/l	50 mg/l	
Total Suspended Solids	4.5	6.7		30 mg/l	45 mg/l	50 mg/l	
Settleable Solids							1.0 ml/l
Escherichia coli Bacteria							77/100 ml
Total Nitrogen ⁽¹⁾			Monitor only			Monitor only	
Total Kjeldahl Nitrogen (TKN) ⁽¹⁾			Monitor only			Monitor only	
Nitrate/Nitrite Nitrogen (NO _x) ⁽¹⁾			Monitor only			Monitor only	
Total Phosphorus			Monitor only			Monitor only	
pH				Between 6.5 and 8.5 Standard Units			

Samples taken in compliance with the effluent limitations specified above shall be taken at the sampling station prior to discharge.

⁽¹⁾ Total Nitrogen = TKN+NO_x

2. The effluent shall not have concentrations or combinations of contaminants including oil, grease, scum, foam, or floating solids which would cause a violation of the water quality standards of the receiving waters.
3. The discharge shall not cause a violation of Water Quality Standards in the receiving water or a visible discoloration of the receiving waters.
4. The discharge shall not cause a visible discoloration of the receiving waters.
5. When the effluent discharged for a period of 90 consecutive days exceeds 80 percent of the permitted flow limitation, the permittee shall submit to the permitting authority projected loadings and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.
6. Any action on the part of the Agency of Natural Resources in reviewing, commenting upon or approving plans and specifications for the construction of wastewater treatment facilities shall not relieve the permittee from the responsibility to achieve effluent limitations set forth in this permit and shall not constitute a waiver of, or act of estoppel against any remedy available to the Agency, the State of Vermont or the federal government for failure to meet any requirement set forth in this permit or imposed by state or federal law.
7. The depth of sludge accumulation in the septic tanks shall be measured at a minimum of twice per year, once in May and once in September. The results shall be included with the monthly WR-43 report.
8. The permittee shall clean the quartz sleeves of the Ultraviolet Light disinfection system and shall replace the Ultraviolet Light disinfection system lamps as necessary to maintain compliance with Escherichia coli Bacteria effluent limitations. The dates and a description of all the Ultraviolet Light disinfection system maintenance activities shall be included on the monthly monitoring report (WR-43).

B. WASTE MANAGEMENT ZONE

In accordance with 10 V.S.A. Section 1252, this permit hereby establishes a waste management zone that extends from the outfall of the Arlington School Wastewater Treatment Facility in Warm Brook downstream 1.0 miles.

C. REAPPLICATION

If the permittee desires to continue to discharge after the expiration of this permit, the permittee shall reapply on the application forms then in use at least 180 days before this permit expires.

Reapply for a Discharge Permit by: September 30, 2018.

D. OPERATING FEES

This discharge is subject to operating fees. The permittee shall submit the operating fees in accordance with the procedures provided by the Secretary.

E. MONITORING AND REPORTING

1. Sampling and Analysis

The sampling, preservation, handling, and analytical methods used shall conform to regulations published pursuant to Section 304(g) of the Clean Water Act, under which such procedures may be required. Guidelines establishing these test procedures have been published in the Code of Federal Regulations, Title 40, Part 136 (Federal Register, Vol. 56, No. 195, July 1, 1999 or as amended).

Samples shall be representative of the volume and quality of effluent discharged over the sampling and reporting period. All samples are to be taken during normal operating hours. The permittee shall identify the effluent sampling location used for each discharge.

2. Effluent Monitoring

The permittee shall monitor and record the quality and quantity of discharge(s) S/N 001 - outfall, the Arlington School Wastewater Treatment Facility, according to the following schedule and other provisions: until March 31, 2019:

PARAMETER	MINIMUM FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Continuous	Daily Total, Max., Min.
BOD ₅	1 x monthly	8 hour composite ^(1,2)
TSS	1 x monthly	8 hour composite ^(1,2)
Settleable Solids	1 x daily	grab ⁽³⁾
Escherichia coli Bacteria	1 x monthly	grab ⁽²⁾
Total Nitrogen	1 x quarterly	calculated ^(4,5)
TKN	1 x quarterly	8 hour composite ^(1,4,5)
NO _x	1 x quarterly	8 hour composite ^(1,4,5)
Total Phosphorus	1 x quarterly	8 hour composite ^(1,5)
pH	1 x daily	grab

- (1) Composite samples for BOD₅, TSS, Total Phosphorus, and Total Nitrogen (TKN and NO_x) shall be taken during the hours 6:00 a.m. to 6:00 p.m., **or during the duration of the effluent pumping event.** Eight hours is the minimum time period for the composite **unless the effluent pumping event is less.**
- (2) If the result of the analysis for this parameter exceeds the effluent limitation specified in Condition I.A.1 above, then the permittee shall immediately collect and analyze an additional effluent sample for that parameter.
- (3) Settleable Solids samples shall be collected between 10:00 a.m. and 2:00 p.m. or during the period of peak flow.
- (4) Total Nitrogen = TKN+NO_x.
- (5) Total Nitrogen and Total Phosphorus monitoring shall be conducted during February, June, September, and November.

3. Reporting

The permittee is required to submit monthly reports of monitoring results on form WR-43. Reports are due on the 15th day of each month, beginning with the month following the effective date of this permit.

If, in any reporting period, there has been no discharge, the permittee must submit that information by the report due date.

Signed copies of these, and all other reports required herein, shall be submitted to the Secretary at the following address:

Agency of Natural Resources
Department of Environmental Conservation
Watershed Management Division
One National Life Drive, Main Building, 2nd Floor
Montpelier VT 05620-3522

All reports shall be signed:

- a. In the case of corporations, by a principal executive officer of at least the level of vice president, or his/her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the permit form originates;
- b. In the case of a partnership, by a general partner;
- c. In the case of a sole proprietorship, by the proprietor;
- d. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

In addition to the monitoring and reporting requirements given above, daily monitoring of certain parameters for operational control are required by the Agency. Operations reports (reporting form WR-43) shall be submitted monthly.

4. Recording of Results

The permittee shall maintain records of all information resulting from any monitoring activities required, including:

- a. The exact place, date, and time of sampling;
- b. The dates and times the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques and methods used including sample collection handling and preservation techniques;
- e. The results of all required analyses.
- f. The records of monitoring activities and results, including all instrumentation and calibration and maintenance records;
- g. The original calculation and data bench sheets of the operator who performed analysis of the influent or effluent pursuant to requirements of Section I.(A) of this permit.

The results of monitoring requirements shall be reported (in the units specified) on the Vermont reporting form WR-43 or other forms approved by the Secretary.

5. Additional Monitoring

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form WR-43. Such increased frequency shall also be indicated.

F. DRY WEATHER FLOWS

Dry weather flows of untreated municipal wastewater from any sanitary or combined sewers are not authorized by this permit and are specifically prohibited by State and Federal laws and regulations.

G. OPERATION, MANAGEMENT, AND EMERGENCY RESPONSE PLANS

- a. The permittee shall implement the Operation, Management, and Emergency Response Plan for the wastewater treatment facility, pump stations, and stream crossings as approved by the Agency on October 2, 2008.
- b. The permittee shall implement the Operation, Management, and Emergency Response Plan for the wastewater collection system as approved by the Agency on September 21, 2010.

H. EMERGENCY ACTION - ELECTRIC POWER FAILURE

The permittee shall indicate in writing to the Secretary **within 30 days after the effective date of this permit** that the discharge shall be handled in such a manner that, in the event the primary source of electric power to the waste treatment facilities (including pump stations) fails, any discharge into the receiving waters will attempt to comply with the conditions of this permit, but in no case shall the wastes receive less than primary treatment (or in the case of ultraviolet light disinfection systems, not less than secondary treatment) plus disinfection.

The permittee shall either provide an alternative source of power for the operation of its treatment facilities, or demonstrate that the treatment facility has the capacity to store the wastewater volume that would be generated over the duration of the longest power failure that would have affected the facility in the last five years, excluding catastrophic events.

The alternative power supply, whether from a generating unit located at the plant site or purchased from an independent source of electricity, must be separate from the existing power source used to operate the waste treatment facilities. If a separate unit located at the plant site is to be used, the permittee shall certify in writing to the Secretary when the unit is completed and prepared to generate power.

The determination of treatment system storage capacity shall be submitted to the Watershed Management Division upon completion.

I. ENGINEERING EVALUATION AND REPORT

By September 30, 2016, the permittee shall conduct an in-depth engineering inspection/evaluation of the wastewater treatment facility and shall submit a written report of the results to the Agency. The engineering inspection and report shall be conducted and prepared in accord with the following conditions:

A professional engineer with experience in the design and operation of municipal wastewater treatment facilities shall be hired to perform an in-depth inspection of the wastewater treatment facility, pump stations, collection system, and manholes. At the treatment facility, all components which are critical to the treatment process or which could adversely affect effluent quality in the event of their failure shall be inspected. Such components shall include (but are not limited to): grit removal systems, comminutors, tank and partition integrity, biological systems, aeration systems, piping, clarifier drives and chlorination and dechlorination systems, ultraviolet light systems, flow metering systems, any critical and necessary valves, sludge handling equipment (digesters and appurtenances), etc. In the pump stations, all components critical to the the proper conveyence of sewage, the prevention of sewage bypass, and the supporting appurtenances shall be inspected. This includes pumps, alarms, checkvalves, piping, motor controls, ventilators, dehumidifiers and sumps pumps, if so equipped, and the station structure.

The inspection is to be comprised of visual observation of equipment operability and condition as well as a review of maintenance records to determine recurring equipment problems and to estimate future life. Calibration checks shall be performed on all flow meters.

The resulting written inspection report shall document the components inspected, their condition, and include recommendations for currently needed repairs or replacements and/or the need for on-site spare parts. The projected date of replacement or major rehabilitation of each component and the anticipated cost shall be estimated. The permittee shall determine how the future anticipated costs will be met and advise the Agency in a letter transmitted with the written inspection report. The Agency recommends an annual set-aside to a sinking fund so that funds are immediately available for the necessary rehabilitations or replacements.

Should the Agency determine that certain critical components are in need of repair or replacement due to the results of the inspection report, this permit may be reopened and amended to include an implementation schedule for repair or replacement of those components.

J. SEWER ORDINANCE

The permittee shall have in effect a sewer use ordinance acceptable to the Secretary which, at a minimum, shall

1. Prohibit the introduction by any discharger into the permittee's sewerage system or treatment facilities of any pollutant which:
 - a. is a toxic pollutant in toxic amounts as defined in standards issued from time to time under Section 307(a) of the Clean Water Act;

- b. creates a fire or explosion hazard in the permittee's treatment works;
 - c. causes corrosive structural damage to the permittee's treatment works, including all wastes with a pH lower than 5.0;
 - d. contains solid or viscous substances in amounts which would cause obstruction to the flow in sewers or other interference with proper operation of the permittee's treatment works; or
 - e. in the case of a major contributing industry, as defined herein, contains an incompatible pollutant, as further defined herein, in an amount or concentration in excess of that allowed under standards or guidelines issued from time to time pursuant to Sections 304, 306, and/or 307 of the Clean Water Act.
2. Require 45 days prior notification to the permittee by any person or persons of a:
- a. proposed substantial change in volume or character of pollutants over that being discharged into the permittee's treatment works at the time of issuance of this permit;
 - b. proposed new discharge into the permittee's treatment works of pollutants from any source which would be a new source as defined in Section 306 of the Clean Water Act if such source were discharging pollutants; or
 - c. proposed new discharge into the permittee's treatment works of pollutants from any source which would be subject to Section 301 of the Clean Water Act if it were discharging such pollutants.
3. Require any industry discharging into the permittee's treatment works to perform such monitoring of its discharge as the permittee may reasonably require, including the installation, use, and maintenance of monitoring equipment methods, to keep records of the results of such monitoring, and to report the results of such monitoring to the permittee. Such records shall be made available by the permittee to the Secretary upon request.
4. Authorize the permittee's authorized representatives to enter into, upon, or through the premises of any industry discharging into the permittee's treatment works to have access to and copy any records, to inspect any monitoring equipment or method required under subsection 3 above, and to sample any discharge into the permittee's treatment works.

The permittee shall notify the Secretary of any discharge specified in subsection 2 above within 30 days of the date on which the permittee is notified of such discharge. This permit may be modified accordingly.

II. GENERAL CONDITIONS

A. MANAGEMENT REQUIREMENTS

1. Facility Modification / Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently than, or at a level in excess of, that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties pursuant to 10 V.S.A. Chapters 47, 201, and/or 211. Any anticipated facility expansions or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new permit application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

In addition, the permittee shall provide notice to the Secretary of the following:

- a. any new introduction of pollutants into the treatment works from a source which would be a new source as defined in Section 306 of the Clean Water Act if such source were discharging pollutants;
- b. except for such categories and classes of point sources or discharges specified by the Secretary, any new introduction of pollutants into the treatment works from a source which would be subject to Section 301 of the Clean Water Act if such source were discharging pollutants; and
- c. any substantial change in volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into such works at the time of issuance of the permit.

The notice shall include:

- i. the quality and quantity of the discharge to be introduced into the system, and
- ii. the anticipated impact of such change in the quality or quantity of the effluent to be discharged from the permitted facility.

2. Noncompliance Notification

In the event the permittee is unable to comply with any of the conditions of this permit due, among other reasons, to:

- a. breakdown or maintenance of waste treatment equipment (biological and physical-chemical systems including, but not limited to, all pipes, transfer pumps, compressors, collection ponds or tanks for the segregation of treated or untreated wastes, ion exchange columns, or carbon absorption units),
- b. accidents caused by human error or negligence, or
- c. other causes such as acts of nature,

the permittee shall notify the Secretary within 24 hours of becoming aware of such condition or by the next business day and shall provide the Secretary with the following information, in writing, within five (5) days:

- i. cause of non-compliance
- ii. a description of the non-complying discharge including its impact upon the receiving water;
- iii. anticipated time the condition of non-compliance is expected to continue or, if such condition has been corrected, the duration of the period of non-compliance;
- iv. steps taken by the permittee to reduce and eliminate the non-complying discharge; and
- v. steps to be taken by the permittee to prevent recurrence of the condition of non-compliance.

3. Operation and Maintenance

All waste collection, control, treatment, and disposal facilities shall be operated in a manner consistent with the following:

- a. The permittee shall, at all times, maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance, and testing functions required to insure compliance with the conditions of this permit; and
- c. The operation and maintenance of this facility shall be performed only by qualified personnel. The personnel shall be certified as required under the Vermont Water Pollution Abatement Facility Operator Certification Regulations.

4. Quality Control

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at regular intervals to ensure accuracy of measurements, or shall ensure that both activities will be conducted.

The permittee shall keep records of these activities and shall provide such records upon request of the Secretary.

The permittee shall demonstrate the accuracy of the flow measurement device weekly and report the results on the monthly report forms. The acceptable limit of error is $\pm 10\%$.

The permittee shall analyze any additional samples as may be required by the Agency of Natural Resources to ensure analytical quality control.

5. Bypass

The diversion or bypass of facilities (including pump stations) necessary to maintain compliance with the terms and conditions of this permit is prohibited, except where authorized under the terms and conditions of an Emergency Pollution Permit issued pursuant to 10 V.S.A. Section 1268.

6. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any adverse impact to waters of the State resulting from non-compliance with any condition specified in this permit, including accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, and shall be submitted to Department representatives upon request. This period shall be extended during the course of unresolved litigation regarding the discharge of pollutants or when requested by the Secretary.

8. Solids Management

Collected screenings, sludges, and other solids removed in the course of treatment and control of wastewaters shall be stored, treated and disposed of in accord with 10 V.S.A., Chapter 159 and with the terms and conditions of any certification, interim or final, transitional operation authorization or order issued pursuant to 10 V.S.A., Chapter 159 that is in effect on the effective date of this permit or is issued during the term of this permit.

9. Emergency Pollution Permits

Maintenance activities, or emergencies resulting from equipment failure or malfunction, including power outages, which result in an effluent which exceeds the effluent limitations specified herein, shall be considered a violation of the conditions of this permit, unless the permittee immediately applies for, and obtains, an emergency pollution permit under the provisions of 10 V.S.A., Chapter 47, Section 1268. The permittee shall notify the Department of the emergency situation by the next working day.

10 V.S.A., Chapter 47, Section 1268 reads as follows:

"When a discharge permit holder finds that pollution abatement facilities require repairs, replacement or other corrective action in order for them to continue to meet standards specified in the permit, he may apply in the manner specified by the secretary for an emergency pollution permit for a term sufficient to effect repairs, replacements or other corrective action. The permit may be issued without prior public notice if the nature of the emergency will not provide sufficient time to give notice; provided that the secretary shall give public notice as soon as possible but in any event no later than five days after the effective date of the emergency pollution permit. No emergency pollution permit shall be issued unless the applicant certifies and the secretary finds that:

- (1) there is no present, reasonable alternative means of disposing of the waste other than by discharging it into the waters of the state during the limited period of time of the emergency;
- (2) the denial of an emergency pollution permit would work an extreme hardship upon the applicant;
- (3) the granting of an emergency pollution permit will result in some public benefit;
- (4) the discharge will not be unreasonably harmful to the quality of the receiving waters;
- (5) the cause or reason for the emergency is not due to wilful or intended acts or omissions of the applicant."

Application shall be made to the Secretary of the Agency of Natural Resources, Department of Environmental Conservation, One National Life Drive, Main Building, 2nd Floor, Montpelier VT 05620-3522.

B. RESPONSIBILITIES**1. Right of Entry**

The permittee shall allow the Secretary or authorized representative, upon the presentation of proper credentials:

- a. to enter upon the permittee's premises in which an effluent source or any records required to be kept under terms and conditions of the permit are located;
- b. to have access to and copy any records required to be kept under the terms and conditions of the permit;
- c. to inspect any monitoring equipment or method required in the permit; or
- d. to sample any discharge of pollutants.

2. Transfer of Ownership or Control

This permit is not transferable without prior written approval of the Secretary. All application and operating fees must be paid in full prior to transfer of this permit. In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall provide a copy of this permit to the succeeding owner or controller and shall send written notification of the change in ownership or control to the Secretary. The permittee shall also inform the prospective owner or operator of their responsibility to make an application for transfer of this permit.

This request for transfer application must include as a minimum:

- a. A properly completed application form provided by the Secretary and the applicable processing fee.
- b. A written statement from the prospective owner or operator certifying:
 - i. The conditions of the operation that contribute to, or affect, the discharge will not be materially different under the new ownership.
 - ii. The prospective owner or operator has read and is familiar with the terms of the permit and agrees to comply with all terms and conditions of the permit.
 - iii. The prospective owner or operator has adequate funding to operate and maintain the treatment system and remain in compliance with the terms and conditions of the permit.
- c. The date of the sale or transfer.

The Secretary may require additional information dependent upon the current status of the facility operation, maintenance, and permit compliance.

3. Confidentiality

Pursuant to 10 V.S.A. 1259(b):

“Any records, reports or information obtained under this permit program shall be available to the public for inspection and copying. However, upon a showing satisfactory to the secretary that any records, reports or information or part thereof, other than effluent data, would, if made public, divulge methods or processes entitled to protection as trade secrets, the secretary shall treat and protect those records, reports or information as confidential. Any records, reports or information accorded confidential treatment will be disclosed to authorized representatives of the state and the United States when relevant to any proceedings under this chapter.”

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. violation of any terms or conditions of this permit;
- b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. a change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

5. Toxic Effluent Standards

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Federal Act for a toxic pollutant which is present in the permittee's discharge and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, then this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under 10 V.S.A. §1281.

7. Other Materials

Other materials ordinarily produced or used in the operation of this facility, which have been specifically identified in the application, may be discharged at the maximum frequency and maximum level identified in the application, provided:

- a. They are not:
 - i. designated as toxic or hazardous under provisions of Sections 307 and 311, respectively, of the Clean Water Act, or
 - ii. known to be hazardous or toxic by the permittee, except that such materials indicated in (a) and (b) above may be discharged in certain limited amounts with the written approval of, and under special conditions established by, the Secretary or his designated representative, if the substances will not pose any imminent hazard to the public health or safety;
- b. The discharge of such materials will not violate applicable water quality standards; and
- c. The permittee is not notified by the Secretary to eliminate or reduce the quantity of such materials entering the watercourse.

8. Navigable Waters

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

9. Civil and Criminal Liability

Except as provided in, "Bypass" (Part II.A., paragraph 5.), "Emergency Action - Electric Power Failures" (Part I, paragraph J.), and "Emergency Pollution Permits" (Part II.A., paragraph 9.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Civil and criminal penalties for non-compliance are provided for in 10 V.S.A. Chapters 47, 201, and 211.

10. State Laws

Nothing in this permit shall 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 under authority preserved by Section 510 of the Clean Water Act.

11. Property Rights

Issuance of this permit does not convey any property rights in 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.

12. Severability

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

13. Authority

This permit is issued under authority of 10 V.S.A. §§1258 and 1259 of the Vermont Water Pollution Control Act, the Vermont Water Pollution Control Permit Regulation, and Section 402 of the Clean Water Act, as amended. 10 V.S.A. §1259 states: "No person shall discharge any waste, substance, or material into waters of the State, nor shall any person discharge any waste, substance, or material into an injection well or discharge into a publicly owned treatment works any waste which interferes with, passes through without treatment, or is otherwise incompatible with those works or would have a substantial adverse effect on those works or on water quality, without first obtaining a permit for that discharge from the Secretary".

14. Definitions

For purposes of this permit, the following definitions shall apply.

The Act - The Vermont Water Pollution Control Act, 10 V.S.A. Chapter 47

Annual Average - The highest allowable average of daily discharges calculated as the sum of all daily discharges (mg/l, lbs or gallons) measured during a calendar year divided by the number of daily discharges measured during that year.

Average - The arithmetic means of values taken at the frequency required for each parameter over the specified period.

The Clean Water Act - The federal Clean Water Act, as amended.

Composite Sample - A sample consisting of a minimum of one grab sample per hour collected during a 24-hour period (or lesser period as specified in the section on Monitoring and Reporting) and combined proportionally to flow over that same time period.

Daily Discharge - The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.

For pollutants with limitations expressed in pounds the daily discharge is calculated as the total pounds of pollutants discharged over the day.

For pollutants with limitations expressed in mg/l the daily discharge is calculated as the average measurement of the pollutant over the day.

Grab Sample - An individual sample collected in a period of less than 15 minutes.

Incompatible Substance (Pollutant) - Any waste being discharged into the treatment works which interferes with, passes through without treatment, or is otherwise incompatible with said works or would have a substantial adverse effect on these works or on water quality. This includes all pollutants required to be regulated under the Federal Clean Water Act.

Instantaneous Maximum - A value not to be exceeded in any grab sample.

Major Contributing Industry - One that: (1) has a flow of 50,000 gallons or more per average work day; (2) has a flow greater than five percent of the flow carried by the municipal system receiving the waste; (3) has in its wastes a toxic pollutant in toxic amounts as defined in standards issued under Section 307(a) of the Clean Water Act; or (4) has a significant impact, either singly or in combination with other contributing industries, on a publicly owned treatment works or on the quality of effluent from that treatment works.

Maximum Day (maximum daily discharge limitation) - The highest allowable "daily discharge" (mg/l, lbs or gallons).

Mean - The mean value is the arithmetic mean.

Monthly Average - (Average monthly discharge limitation) - The highest allowable average of daily discharges (mg/l, lbs or gallons) over a calendar month, calculated as the sum of all daily discharges (mg/l, lbs or gallons) measured during a calendar month divided by the number of daily discharges measured during that month.

NPDES - The National Pollutant Discharge Elimination System.

Secretary - The Secretary of the Agency of Natural Resources

State Certifying Agency Agency of Natural Resources
Department of Environmental Conservation
Watershed Management Division
One National Life Drive, Main Building, 2nd Floor
Montpelier VT 05620-3522

Weekly Average - (Average weekly discharge limitation) - The highest allowable average of daily discharges (mg/l, lbs or gallons) over a calendar week, calculated as the sum of all daily discharges (mg/l, lbs or gallons) measured during a calendar week divided by the number of daily discharges measured during that week.

07/2000; u. 10/2012

AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
1 NATIONAL LIFE DRIVE
MONTPELIER, VERMONT 05620-3522

FACT SHEET
(March 2014)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT TO
DISCHARGE TO WATERS OF THE UNITED STATES

NPDES NO: VT0022934
FILE NO: 02-01
PERMIT NO: 3-1372
PROJECT ID NO: RU98-0051

NAME AND ADDRESS OF APPLICANT:

Arlington School District
530-A East Arlington Road
Arlington, VT 05250

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Arlington School Wastewater Treatment Facility

RECEIVING WATER: Warm Brook

CLASSIFICATION: Class B with a waste management zone. Class B waters are suitable for bathing and recreation, irrigation and agricultural uses; good fish habitat; good aesthetic value; acceptable for public water supply with filtration and disinfection. A waste management zone is a specific reach of Class B waters designated by a permit to accept the discharge of properly treated wastes that prior to treatment contained organisms pathogenic to human beings.

I. Proposed Action, Type of Facility, and Discharge Location

The above named applicant applied on June 28, 2013 to the Vermont Department of Environmental Conservation for renewal of the permit to discharge into the designated receiving water. At this time the Department has made a tentative decision to reissue the discharge permit. The facility is engaged in the treatment of municipal wastewater. The discharge is from the outfall of the Arlington School District Wastewater Treatment Facility to Warm Brook.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Watershed Management Division, Montpelier, VT. Copies will be made at a cost based on the current Secretary of State Official Fee Schedule for Copying Public Records from 8:00 AM to 4:30 PM, Monday through Friday. The draft permit and fact sheet may also be viewed on the Division's website at www.anr.state.vt.us/dec/ww/wvmd.cfm.

II. Description of Discharge

A quantitative description of the discharge in terms of significant effluent parameters is based on state and federal laws and regulations, the discharge permit application, and the recent self-monitoring data.

III. Limitations and Conditions

The effluent limitations of the permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the permit:

Effluent Limitations: Page 2 of 19

Monitoring Requirements: Page 4 of 19

IV. Receiving Water

The receiving water for this discharge is the Warm Brook. This stream is classified as a Cold Water Fishery. At the point of discharge, the river has a contributing drainage area of approximately 26.1 square miles. The summer 7Q10 flow is 5.46 cfs and the Low Median Monthly summer flow is 13.0 cfs. At the permitted flow, the Instream Waste Concentration (IWC) at summer 7Q10 flows is 0.005. The IWC at low median monthly flows is 0.002. There are no permitted discharges upstream of this discharge. Also it should be noted that during the school year, the facility maintains a continuous discharge. However during the summer, the discharge is significantly less and can be intermittent since school is not in session and the flow into the system is significantly reduced. There are no permitted discharges upstream of this discharge.

V. Permit Basis and Explanation of Effluent Limitation Derivation

The Arlington School District operates the Arlington School Wastewater Treatment Facility (WWTF). The WWTF receives wastewater from an elementary school, high school, administrative building, library, and day-care. The treatment system consisting of septic tanks located at the elementary school and high school for primary solids settling. The wastewater flows from the septic tanks via gravity to a 14,000 gallon aerated flow Equalization tank. The wastewater is pumped from the EQ tank to a rotating biological contact (RBC) unit for organic pollutant removal. From the RBC unit, the partially treated wastewater flows to a secondary clarifier. The treated water flows from the clarifier to a pump station and is pumped through the ultraviolet light disinfection system and discharged to Warm Brook. Sludge accumulation is routinely measured and removed from the septic tanks.

Flow - The flow limitation remains at 0.018 MGD, annual average, representing the facility's design flow. During the school year, the facility maintains a continuous discharge. However during the summer, the discharge is significantly less than during the school year and can be intermittent since school is not in session and the flow into the system is significantly reduced.

Biochemical Oxygen Demand (BOD₅) - The effluent limitations for biochemical oxygen demand is unchanged from the current permit. The monthly average (30 mg/l) and weekly average (45 mg/l) are based on the effluent quality specified for secondary treatment in 40 CFR Part 133.102. The permit also includes a 50 mg/l, maximum day, BOD limitation. This limitation is applied to

all such discharges pursuant to 13.4 c. of the Vermont Water Pollution Control Permit Regulations. Specifically, the Agency implements this limitation to supplement the federal technology based limitations to prevent a gross one-day permit effluent violation to be offset by multiple weekly and monthly sampling events which would enable a discharger to comply with the weekly average and monthly average permit limitations. Mass limits (4.5 lbs/day, monthly average and 6.7 lbs/day, weekly average) are derived by multiplying the concentration limits by the permitted flow. Given the dilution, mixing, and assimilative capacity within the receiving water, this discharge does not have a potential to cause or contribute to a violations of the water quality standards. The BOD monthly monitoring requirement is unchanged from the previous permit.

Total Suspended Solids (TSS) - The effluent limitations for total suspended solids is unchanged from the current permit. The monthly average (30 mg/l) and weekly average (45 mg/l) are based the effluent quality specified for secondary treatment in 40 CFR Part 133.102. The permit also contains a 50 mg/l, maximum day, TSS limitation. This limitation is applied to all such discharges pursuant to 13.4 c. of the Vermont Water Pollution Control Permit Regulations. Specifically, the Agency implements the limit to supplement the federal technology based limitations to prevent a gross one-day permit effluent violation to be offset by multiple weekly and monthly sampling events which would enable a discharger to comply with the weekly average and monthly average permit limitations. Mass limits (4.5 lbs/day, monthly average and 6.7 lbs/day, weekly average) are derived by multiplying the concentration limits by the permitted flow. Given the dilution and mixing within the receiving water, the discharge does not have a potential to cause or contribute to a violations of the water quality standards. The TSS monthly monitoring requirement is unchanged from the previous permit.

pH – The pH limitation is proposed to remain at 6.5 - 8.5 Standard Units and is based on Section 3-01 B.9. of the Vermont Water Quality Standards, effective December 30, 2011. Monitoring remains at daily.

Settleable Solids - The limitation of 1.0 ml/l instantaneous maximum and daily monitoring remain unchanged from the previous permit. This numeric limit was established in support of the narrative standard in Section 3-01 B.5. of the Vermont Water Quality Standards, effective December 30, 2011.

***E. coli* Bacteria** - The *E. coli* limitation is 77/100 ml as specified in Section 3-04 B.3., Vermont Water Quality Standards, effective December 30, 2011. Once per month monitoring is required.

Total Phosphorus, Total Nitrogen, and Ammonia – The Agency is currently in the process of proposing scientifically based phosphorus and nitrogen criteria for lakes and wadeable streams for inclusion in the next revision of the Vermont Water Quality Standards. Once adopted these criteria will be used to determine the potential of discharges to cause or contribute to eutrophication and adversely impact the aquatic biota. In support of this effort the Department is requiring the monitoring of all municipal wastewater discharges for total phosphorus and total nitrogen. Monitoring for Total Phosphorus and Total Nitrogen is required quarterly.

It should be noted based on the extremely low IWC and seasonal reduced flows, it is highly improbable that discharge has the potential to cause or contribute to eutrophication or adversely impact the aquatic biota in Warm Brook. The collection of the nitrogen and phosphorus effluent

data will enable the Department to confirm that discharge does not have a reasonable potential to cause any instream impacts.

Also since Total Nitrogen monitoring has been required, the “monitor only” requirement for ammonia has been eliminated since that data will be provided as part of the Total Nitrogen analysis. In addition, the ammonia data collected on this discharge over the past permitting periods indicates that the ammonia concentrations are consistently and significantly below 26 mg/l. Therefore the resampling requirements for ammonia contained in the previous permit, which became effective if the effluent ammonia exceeded 26 mg/l, have been eliminated.

Waste Management Zone - As defined under 10 V.S.A. §1251(16), a waste management zone is “a specific reach of Class B waters designated by a permit to accept the discharge of properly treated wastes that prior to treatment contained organisms pathogenic to human beings. Throughout the receiving waters, the instream water quality criteria must be achieved but an increased health risk exists due to the authorized discharge”.

The proposed permit retains the existing waste management zone (WMZ) in Warm Brook beginning at the outfall of the WWTF and extending downstream for 1.0 mile.

Operation, Management, and Emergency Response Plans

Condition I.G requires the Operation, Management, and Emergency Response Plan for the wastewater treatment facility, pump stations, and stream crossings approved by the Agency on October 2, 2008 be implemented. This Condition also requires that the Operation, Management and Emergency Response Plan for the collection system approved by the Agency on September 21, 2010 be implemented.

Engineering Evaluation

Since this wastewater treatment facility was constructed approximately 20 years ago and will theoretically reach its design life during the term of this permit, Condition I.I. has been included in the draft permit. This condition requires that an in-depth engineering evaluation/inspection of the facility be conducted and a written report submitted to the Agency by September 30, 2016.

Electric Power Failure - Within 30 days of the effective date of the permit, the permittee must submit to the Department, updated documentation addressing how the discharge will be handled in the event of an electric power outage. The effluent must receive a minimum of primary treatment plus disinfection.

V. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from March 24, 2014 through April 24, 2014 during which time interested persons may submit their written views on the draft permit.

All written comments received by 4:30 PM on April 24, 2014 will be retained by the Department and considered in the formulation of the final determination to issue, deny or modify the draft permit. The period of comment may be extended at the discretion of the Department.

Written comments should be sent to:

Vermont Agency of Natural Resources
Department of Environmental Conservation
Watershed Management Division – Main 2
1 National Life Drive
Montpelier, VT 05620-3522

Comments may also be faxed to: 802-828-1544 or submitted by e-mail using the e-mail provisions included at <http://www.anr.state.vt.us/dec/waterq/ww/html/notices.htm>

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Department will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the proposed discharge or other appropriate area, at the discretion of the Department and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Department may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Department and considered in the formulation of the final determination to issue, deny, or modify the draft permit