

**AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1 NATIONAL LIFE DRIVE, MAIN 2
MONTPELIER, VT 05620-3521**

**DRAFT
INDIRECT DISCHARGE PERMIT**

File Code: WIN-9-0217

Permit No.: ID-9-0217

PIN: EJ95-0266.01

SECTION A - "ADMINISTRATION"

In compliance with provisions of 10 V.S.A. §1263, and in accordance with the following conditions, the permittee:

Catamount / Bolton Water and Sewer LLC
and
Mountain Operations and Development LLC
c/o Larry Williams, Principal
210 College Street, Suite 201
Burlington, VT 05401

are authorized to discharge treated domestic sewage from an existing 92,000 gallon per day design capacity subsurface wastewater disposal system serving Bolton Valley Ski Area in Bolton, Vermont, to the groundwater and indirectly to Joiner Brook.

This is a permit renewal.

A1. Permit Summary:

| | |
|-----------------------------|---|
| Expiration Date | March 31, 2021 |
| Type of Waste | Domestic Sewage |
| Treatment System | Septic Tank/Rotating Biologic Contacter/Chemical Addition/ Clarification/Filtration/ UV Disinfection |
| Disposal System | Trenches |
| Town | Bolton |
| Drainage Basin | Winooski River |
| Receiving Water | Joiner Brook |
| Drainage Area | 5.67 square miles |
| Stream Flow: | |
| Low Median Monthly (LMM) | 982,000 gpd (est.) |
| 7Q10 Stream Flow | 187,000 gpd (est.) |
| Design Capacity | 92,000 gpd |
| Dilution Ratio | |
| (stream flow to wastewater) | 10.7 to 1 LMM 2.0 to 1 7Q10 |

A2. Compliance Schedule:

The following schedule summarizes the actions and requirements necessary for compliance with the conditions of this permit. The permittee shall complete the requirements in accordance with the dates indicated. See the designated section for specific details.

| <u>Condition # & Description</u> | <u>Schedule Date</u> |
|--|--|
| A3. Apply for renewal of Indirect Discharge Permit | December 31, 2020 |
| C2. Have a Vermont Registered Professional engineer submit a Basis of Design Report | By August 1, 2016 |
| C3. Implementation Schedule | As Specified |
| D3(A). Have a Vermont Registered Professional engineer complete an inspection of sewage collection, treatment and disposal system. | Annually during April |
| D3(B). Submit Annual Inspection Report | Annually prior to July 1 st |
| D3(C). Submit Schedule for Implementing engineer's recommendations | Annually prior to July 1 st |
| D9. Submit names of operator and assistant operator for following calendar year | Annually, by January 1st |
| E2. Collect and analyze influent & effluent samples | As specified |
| E3(A) Collect and analyze ground water samples | Monthly |
| E3(B) Measure and record the depths to ground water | Once every seven days |
| E4. Collect and analyze receiving stream samples | Monthly (As specified) |

A2. Compliance Schedule (continued):

| <u>Condition # & Description</u> | <u>Schedule Date</u> |
|--|--|
| E2, E3(A), E3(B) and E4 Submit results of monitoring | By the 15 th of the second month following the date of sampling |
| E5. Submit evaluation by a water quality specialist | Annually by March 1 st |

A3. Expiration Date:

This permit, unless revoked, or amended shall be valid until **March 31, 2021** despite any intervening change in Water Quality Standards or the classification of receiving waters. Renewal of this Indirect Discharge Permit will be subject to all rules applicable at the time of renewal, including biological standards to determine significant alteration of aquatic biota.

The permittee shall apply for an Indirect Discharge Permit renewal by **December 31, 2020**. For the purposes of Title 3, an application for renewal of this indirect discharge permit will be considered timely if a complete application is received by the expiration date.

A4. Effective Date:

This permit becomes effective on the date of signing.

A5. Revocation:

The Secretary may revoke this permit in accordance with 10 V.S.A. §1267.

A6. Transfer of Permit:

This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, before any sale, lease or other transfer of ownership of the property from which the permitted discharge originates. The proposed transferee shall make application for a permit to be reissued in their name. Failure to apply shall be considered a violation of this permit. Responsibility for compliance with the conditions of this permit shall be the burden of the permittee until such time as transfer of the permit to the transferee is complete.

All application and operating fees must be paid in full prior to transfer of this permit. This permit shall be transferred only upon showing by the permittee or proposed transferee of compliance with the following conditions:

A6. Transfer of Permit (continued):

- a. The transferee shall be a legal entity, financially and technically competent to operate, inspect, maintain and replace the systems.
- b. The transferee shall demonstrate that they have the legal authority to raise revenues for the proper operation, inspection, and maintenance of the system.
- c. The transferee shall provide a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittees to the Secretary.

A7. Minor Modifications of Permits:

The Secretary may modify this permit without requiring a permit application, a public notice, or a public hearing to correct typographical errors, or to increase the monitoring frequency in accordance with Condition E(8) of this permit.

A8. Indirect Discharge Rules:

This permit authorizes an existing indirect discharge.

This indirect discharge was reviewed and qualified for an Indirect Discharge Permit in accordance with Section 14-603 (b) of the Indirect Discharge Rules for existing indirect discharges of sewage. No increase in sewage volume is allowed without the written approval of the Secretary.

A9. Right of Agency to Inspect:

The permittees shall allow the Secretary or the Secretary's authorized representative upon the presentation of their credentials and at reasonable times:

- a. To enter upon permittee's premises in which any effluent source, treatment or disposal system is located or in which any records are required to be kept under the conditions of the permit;
- b. To have access to and copy any records required to be kept under conditions of this permit;
- c. To inspect any monitoring equipment or method required in this permit;
- d. To sample any discharge of waste, groundwater or surface water; and
- e. To inspect any collection, treatment, pollution management and disposal facilities required by this permit.

A10. Permit Availability:

A copy of the approved plans and this permit shall remain at the office of the permittee and, upon request, shall be made available for inspection by Secretary personnel.

A11. Minor Modifications To System:

Minor modifications of the engineering design which do not reduce the treatment effectiveness or increase the capacity of the system may be approved in writing by the Secretary without permit amendment.

Before making modifications to the treatment and/or disposal system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any of the modifications or additions are made.

A12. Correction of Failed Systems:

The Secretary may, upon discretion, issue an Amendment to the Indirect Discharge Permit for the design and reconstruction of a failed wastewater disposal system where the replacement system design was not previously approved.

Before reconstruction of the failed system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any reconstruction occurs. Due to the urgency of the need to correct failed disposal systems, the Secretary will process these Amendments as soon as possible.

A13. Operating Fees:

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

SECTION B "INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

This existing indirect discharge is located in the Winooski River drainage basin in the town of Bolton, Chittenden County, Vermont. This indirect discharge can be located on the USGS Bolton Mountain, VT 7.5' quadrangle map at Latitude N 44° 24' 32.6" and Longitude W 72° 52' 20".

B2. Nature of Indirect Discharge:

According to the approved plans for the sewage treatment and disposal system the sewage is initially treated in a central septic tank. The septic tank effluent is discharged to an equalization tank, then discharged to a Rotating Biological Contactor (RBC) for additional treatment. Prior to May, 2004 ferric chloride was added to the effluent from the RBC as a precipitant for phosphorus removal; currently, alum is being utilized for this purpose. Sodium hydroxide is added as a pH adjuster for the effluent prior to discharge to the secondary clarifiers.

From the secondary clarifiers the effluent is pumped to a tertiary sand filter for final clarification and then ultraviolet disinfection for final treatment. The treated effluent is discharged to the wastewater disposal area which consists of a pressure distribution/trench system to existing disposal fields 1A-1D and disposal fields 2A-2D. This is a high rate disposal system and the permittee constructed additional disposal fields (3A – 3C and 4A – 4C) to decrease the overall application rate to 8.82 gallons per day per square foot. These fields constitute a disposal system with 100% dual alternation and an approved disposal capacity of 92,000 gpd. In 2004, disposal fields 1A-1D were rehabilitated in place to remove stone clogged with ferric sludge. In 2005, disposal fields 2A-2D were rehabilitated in place to remove stone clogged with ferric sludge.

SECTION C "SYSTEM APPROVALS AND CONSTRUCTION"

C1. Approved Plans:

The design plans of this sewage treatment and disposal system were originally approved by Certificate of Compliance 4C0436-1 issued on July 22, 1980. Modifications and improvements to the system were approved by Certificate of Compliance #4C0436-3A issued on October 18, 1985, and Water Supply and Wastewater Disposal Permit #WW-4-0022 issued on November 1, 1988.

The plans approved in Certificate of Compliance 4C0436-1 were prepared by John Stuart, P.E., Sheets 1 through 8, entitled "Bolton Valley Corporation", last revised June, 1980.

The plans approved in Certificate of Compliance #4C0436-3A prepared by Lance Llewellyn, P.E. of Fitzpatrick-Llewellyn, Inc. were:

- a. Sheet 1 of 2, entitled "Wastewater Disposal Field", dated June, 1985, last revised September 13, 1985;
- b. Sheet 2 of 2, entitled, "Wastewater Disposal Field Details", dated June, 1985, last revised September 24, 1985;

C1. Approved Plans (continued):

- c. Sheet 1 of 1, entitled, "Wastewater Treatment Plant - Equalization Tank Modification", dated July, 1985;
- d. Sheet 1 of 4, entitled, "Wastewater Treatment Plant - Water Supply", dated July, 1985;
- e. Sheet 2 of 4, entitled, "Wastewater Treatment Plant - Water Supply Details", dated July, 1985; and
- f. Sheet 3 of 4, entitled, "Typical Details - Site Facilities", dated July, 1985;

The plans approved in Water Supply and Wastewater Disposal Permit #WW-4-0022 prepared by Lance Llewellyn, P.E. of Fitzpatrick-Llewellyn, Inc. were:

- a. Sheet 1 of 1, entitled "Pipeline Profiles", dated October, 1988;
- b. Sheet 2 of 12, entitled, "Specifications", dated July, 1988, last revised October 19, 1988;
- c. Sheet 3 of 12, entitled, "Process Plan", dated July, 1988, last revised October 24, 1988;
- d. Sheet 4 of 12, entitled, "Site Plan", dated July, 1988, last revised October 24, 1988;
- e. Sheet 5 of 12, entitled, "Miscellaneous Details", dated July, 1988, last revised October 19, 1988;
- f. Sheet 6 of 12, entitled, "Secondary Clarifier Building", dated July, 1988, last revised October 24, 1988;
- g. Sheet 7 of 12, entitled, "Clarifier Building Details", dated July, 1988;
- h. Sheet 8 of 12, entitled, "Typical Details", dated July, 1988, last revised October 26, 1988;
- i. Sheet 11 of 12, entitled, "Electrical Floor Plan", dated August 18, 1988 last revised August 25, 1988, prepared by John Stetson, P.E., of Stetson Consulting Engineers, Inc.
- j. Ricker Peak Water Works, "Wastewater Disposal Fields - Existing", Sheet 1 of 3; "Wastewater Disposal Fields - Modifications", Sheet 2 of 3; "Construction Details", Sheet 3 of 3; all dated October, 1997, last revised 11/6/97 by Lance A. Llewellyn, P.E., Llewellyn Inc.
- k. Ricker Peak Water Works, "Process Control Building Sodium Hydroxide Feed System", Sheet 1 of 1, signed and dated 11/14/97 by Lance A. Llewellyn, P.E.

Additional Approved Plans Under Previous Permti Amendment ID-9-0217-5A:

- a. Ricker Peak Water Works, Sheet 1, "Wastewater Disposal Fields- Existing", Sheet 2, "Wastewater Disposal Fields - Modifications Fields 2A-2D", Sheet 3, "Construction Details - Fields 2A-2D", dated June, 1998, revised 7/23/98 by Lance A. Llewellyn, P.E.

Additional Approved Plans Under Previous Permit Amendment (ID-9-0217-6):

Disposal Fields 3A – 3C and 4A – 4C were reportedly constructed in accordance with the following plans:

Sheet 1 of 3 entitled "Bolton Valley Water & Sewer Company Wastewater Disposal Fields, Bolton, Vermont" dated September, 2000, last revised 12/26/00;

Additional Approved Plans Under Permit Amendment (ID-9-0217-6):

Sheet 2 of 3 entitled "Bolton Valley Water & Sewer Company Wastewater Disposal Fields, Bolton, Vermont" dated September, 2000, last revised 11/10/00;

Sheet 3 of 3 entitled "Bolton Valley Water & Sewer Company Wastewater Disposal Fields, Bolton, Vermont" dated September, 2000, last revised 11/10/00; and

which were stamped and signed by Bernard X. Chenette, P.E. of Chenette Associates, PC. Fields 3A-C and Fields 4A-C were constructed as shown on As-Built plan entitled "Bolton Valley Water & Sewer Company Wastewater Disposal Fields – Bolton, Vermont" dated December, 2003. Unsuitable soil conditions encountered during construction necessitated the elimination of proposed Fields 3D and 4D.

C2. Basis of Design Report:

By August 1, 2016, the permittee shall have a Vermont-registered professional engineer submit a Basis of Design Report (BoDR) for the wastewater treatment and disposal facility using the format of the Basis of Final Design document previously supplied to the permittee on May 17, 2016. The BoDR shall outline the steps that the permittee will take to either correct existing system deficiencies, including the Rotating Biological Contactor unit, or replace system components with more efficient treatment technology. The BoDR shall be subject to the review and approval of the Secretary.

C3. Schedule for Implementation:

The permittee shall follow the following schedule in addressing all four potential weak points identified in the Fatal Flaw Analysis submitted to the Secretary on September 15, 2015 by Michael A. Smith, P.E. of Weston & Sampson:

| <u>Action</u> | <u>Date</u> |
|--|---------------------|
| Obtain approval from the Secretary for the BoDR required by Condition C(2) | By October 15, 2016 |
| Have a Vermont-registered professional Engineer submit plans for review and approval Detailing the rehabilitation of the WWTF, or upgrading the components, as outlined in the approved BoDR | By December 1, 2016 |
| Submit an application for amendment of ID-9-0217 to construct WWTF improvements | By February 1, 2017 |

SECTION D "SYSTEM OPERATION"

D1. General Operating Requirements:

The sewage treatment and disposal system shall be operated at all times in a manner that will: (1) not permit the discharge of sewage onto the surface of the ground; (2) not result in the surfacing of sewage; (3) not result in the direct discharge of sewage into the waters of the State; and (4) not result in a violation of the Vermont Water Quality Standards.

In accordance with accepted design practices, the effluent disposal rate to the disposal fields shall not exceed 92,000 gallons per day except as may occur on an occasional basis during normal operation.

D2. Treatment and Effluent Limits:

The flow through the plant and effluent quality prior to discharge to the disposal fields shall comply at all times with the following limits:

| <u>Parameter</u> | <u>Monthly Average</u> | <u>Ten Day Average</u> | <u>Weekly Average</u> | <u>Daily Maximum</u> |
|-------------------------|----------------------------|----------------------------|---------------------------|--------------------------|
| Flow in Treatment Plant | N/A | 92,000 | N/A | N/A |
| Flow to disposal field | N/A | N/A | N/A | 92,000 gpd |
| BOD5 | 10 mg/l | N/A | 15 mg/l | 18 mg/l |
| TSS | 10 mg/l | N/A | 15 mg/l | 18 mg/l |
| Total Phosphorus | N/A | N/A | N/A | 2 mg/l |
| <u>E. coli</u> | N/A | N/A | N/A | 77 col/100 ml |

D3. Annual Inspection, Report and Implementation Schedule:

(A) Annual Inspection:

Annually during the month of April, the permittee shall engage a Vermont Registered Professional engineer to make a thorough inspection, evaluation, and report of the complete sewage collection, treatment and disposal system. The engineer's inspection shall include, but not be limited to the following:

1. inspecting the entire collection system, removing manhole covers to observe the condition of the sewers and manholes, and noting any signs of inflow or excess infiltration;
2. evaluation of the accumulation of solids and scum in the septic tanks and sludge holding tank and determine if the tanks should be pumped out that year;
3. verifying the proper operation of all lift station pumps, alarms and controls and of the effluent dosing tank control valve;
4. verifying that the equalization tank pumps and the pumps in the wet well following the clarifiers are discharging slightly more than 64 gpm;
5. verifying the proper operation of the RBC, secondary clarifiers and tertiary filter, and the operation of the chemical feed pumps;
6. verifying the proper operation of the splitter box for the secondary clarifiers;

D3. Annual Inspection, Report and Implementation Schedule (continued):

7. checking the discharge rate of the flow control structure on the tertiary filter to ensure that the flow to the disposal fields is 92,000 gpd and that the flow to each filter cell is equal;
8. checking the operation of the UV disinfection units;
9. checking the calibration of the effluent flow meter and influent flow meter;
10. verifying the use of alternate disposal fields and noting the condition of the surface of the fields;
11. checking the operation of all dosing chambers in the disposal field;
12. noting the liquid level in all observation wells and any evidence of uneven distribution of effluent;
13. evaluating the performance of the sewage treatment facility over the past year against the permitted effluent limits (including flows); and
14. noting any necessary repairs or maintenance that needs to be performed on the sewage collection, treatment, and disposal system.

(B) Annual Inspection Report:

Before July 1st each year the permittee shall have the inspecting engineer submit a report including the following items:

1. a complete list of the items inspected and the results of the inspection;
2. a discussion of the recommended repairs and maintenance required;
3. an evaluation of the past year's effluent quality and flow records to verify compliance with the permit requirements.

(C) Implementation Schedule:

Before July 1st each year the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented and include a schedule for the required repairs and maintenance.

D4. Septage and Sludge Disposal:

During the system's annual inspection the depth of sludge and scum shall be measured in all septic tanks. The septic tanks shall be pumped if: 1) the sludge is closer than twelve (12) inches to the outlet baffle or; 2) the scum layer is closer than three (3) inches to the septic tank outlet baffle or; 3) if otherwise recommended by the inspecting engineer. Before pumping the tanks, the permittee shall notify the Secretary in writing of the name and address of the pumper and the municipal sewage treatment facility where the septage is to be disposed or other facility approved by the Secretary.

When determined necessary by the inspecting engineer, sludge from the sewage treatment facility shall be pumped out. All sludge removed from the sewage treatment facility shall be disposed of at locations approved by the Residual Management Section of the Department of Environmental Conservation. The permittee shall comply with the reporting procedures specified in the Certification from the Residuals Management Section or approved Sludge Management Plan.

D5. System Operation and Maintenance:

The sewage collection, treatment, and disposal system shall be operated and maintained at all times in a manner satisfactory to the Secretary and in a manner that will not pose a risk to the public health and safety, or cause contamination of drinking water supplies, groundwater and/or surface water.

D6. Reporting of Failures:

The permittee shall immediately report any failure of the sewage collection, treatment, or disposal system to the Secretary, first by telephone within 24 hours of the failure and then in writing within 5 days of the failure. The written notice shall include a discussion of the actions taken or to be taken to correct the failure.

D7. Catastrophic Failure:

Catastrophic failure of this wastewater treatment and disposal system shall be considered to have occurred if the wastewater treatment facility experiences mechanical failures that prevents the treatment of all sewage received to achieve the effluent limits listed for chemicals and bacteriological parameters in Condition D(2). Upon catastrophic failure the permittee shall follow the requirements of Condition D(6) and dispose of untreated, or partially treated sewage, at the Richmond WWTF or other municipal treatment facility approved by the Secretary. The alternate disposal location shall be noted on the monthly report in addition to all required monitoring information required by this permit. The disposal at the alternate location shall continue until the treatment system is restored such that the effluent discharged to the disposal fields can meet the effluent limits specified in Condition D(2).

D8. Discharge Restrictions:

The permittee shall not allow any person to discharge or cause to be discharged anything other than sanitary sewage to this collection, treatment and disposal system.

D9. Operator Certification:

The permittees are required at all times to employ a wastewater treatment plant operator and assistant operator, each with a minimum Grade II Operator Certificate from the Secretary's Water Pollution Control Operator Certification Program to operate the treatment and disposal system. **On an annual basis by January 1st each year, the permittees shall submit the names of the operator and assistant operator employed for the following calendar year.** The permittees shall notify the Agency in writing of any change in the operator or assistant operator employed to operate the treatment facility and shall submit their names to the Secretary in writing.

SECTION E "MONITORING"

E1. Quality Control/Quality Assurance Plan:

The permittees shall maintain an approved Quality Control/Quality Assurance plan for all required monitoring. The plan shall include identification of all analytical procedures, all sampling methods, sample preservation methods, all sampling locations, sampling frequency, and reporting times, and quality control measures for both sampling and analysis.

The laboratory identified in the Quality Assurance/ Quality Control Plan shall demonstrate successful performance for U.S. EPA check samples for all parameters and shall analyze any check samples provided by the Secretary. Failure to obtain an acceptable result for check samples provided by either the Secretary or EPA may be a basis for requiring an alternate analytical laboratory.

E2. Influent and Effluent Monitoring:
Chemical:

The influent to and the effluent from the treatment system shall be sampled and analyzed as follows:

| <u>Parameter</u> | <u>Measurement Location</u> | <u>Sample Frequency</u> | <u>Sample Type</u> |
|-------------------------|-----------------------------|-------------------------|------------------------|
| Flow Volume | effluent | Continuous | Daily total, min & max |
| pH | inf. & eff. | Daily | Grab |
| BOD ₅ | effluent | Biweekly | 8-hour composite |
| TSS | effluent | Biweekly | 8-hour composite |
| Total Phosphorus | effluent | Biweekly | 8-hour composite |
| <u>Escherichia coli</u> | effluent | Biweekly | Grab |
| Total Kjeldahl Nitrogen | effluent | Monthly | 8-hour composite |
| Ammonia Nitrogen | effluent | Monthly | 8-hour composite |
| Nitrate Nitrogen | effluent | Monthly | 8-hour composite |
| Nitrite Nitrogen | effluent | Monthly | 8-hour composite |
| Chloride | effluent | Monthly | 8-hour composite |

Composite samples shall be collected over an eight hour period during the hours 6 a.m. to 6 p.m., unless otherwise approved.

Biweekly means every two weeks.

Influent samples shall be taken at a location immediately upstream of the sewage treatment plant and prior to the central septic tank.

Effluent samples shall be taken at a location immediately downstream of the last treatment unit but prior to the disposal fields.

The results of the influent and effluent analysis shall be submitted to the Secretary prior to the 15th day of the second month following the date of sampling.

E3. Groundwater Monitoring:

A. Chemical

Five (5) groundwater monitoring wells in the disposal area, MW#7, MW#105, MW#106, MW#107 and MW#108 shall be sampled and analyzed for the following parameters:

| Parameter | Measurement Units | Sample Frequency | Sample Type |
|----------------------------|-----------------------|------------------|-------------|
| pH | S.U. | Monthly | Grab |
| Total Dissolved Phosphorus | mg/L | Monthly | Grab |
| Nitrate Nitrogen | mg/L | Monthly | Grab |
| Chloride | mg/L | Monthly | Grab |
| <u>Escherichia coli</u> | col/100ml | Monthly | Grab |
| Depth to groundwater | inches (bgs) | Weekly | ---- |

Because of changing water table conditions, the samples from the groundwater monitors might not be collected on the same day or in the same week. If a monitor has water at any time during the month then a single sample from that well for the month is required to be collected and analyzed.

If, in the opinion of the Secretary, the groundwater quality at MW#108 is believed to be significantly affected by other sources of contamination, the Secretary may suspend the requirement for sampling this monitoring well.

B. Groundwater Levels:

The depth to groundwater (below ground surface) in the following 6 monitoring wells (MW#5, MW#7, MW#105, MW#106, MW#107 and MW#108) shall be measured and recorded once every seven (7) days. Dry wells shall be recorded as "no water to depth of well".

The results of all water quality analyses and measurements shall be submitted to the Secretary by the 15th day of the second month following the date of sampling.

E4. Receiving Stream Monitoring:

Two (2) surface water sampling stations, currently identified as JB-1 (upstream) and JB-3 (downstream), shall be sampled and analyzed for the following parameters:

| Parameter | Measurement Units | Sample Frequency | Sample Type |
|----------------------------|----------------------|---|----------------|
| pH | S.U. | Monthly ⁽¹⁾ | Grab |
| Chloride | mg/L | Monthly ⁽¹⁾ | Grab |
| Total Phosphorus | mg/L | Monthly ⁽¹⁾ (see Note #2) | Grab |
| Total Dissolved Phosphorus | mg/L | Monthly ⁽¹⁾ (see Note #2) | Grab |
| Nitrate-Nitrogen | mg/L | Monthly ⁽¹⁾ | Grab |
| <u>Escherichia coli</u> | col/100ml | Monthly ⁽¹⁾ | Grab |
| Dissolved Oxygen | mg/L | Monthly⁽¹⁾ | Grab |
| Turbidity | N.T.U. | Monthly⁽¹⁾ | Grab |
| Temperature | Degrees C | Monthly ⁽¹⁾ | Grab |

The two sampling stations are located on Joiner Brook above and below the zone of the indirect discharge from the disposal system. These stations are identified in the document entitled "Catamount/Bolton Water and Sewer, LLC QA/QC Plans: Baseline Water Quality Monitoring and Biomonitoring," dated June 16, 2005.

Notes:

- #1 Monthly means during the months of February, June through October**
- #2 Two independent samples shall be taken and analyzed on each sampling date.
- #3 The permittee shall not sample the receiving stream within 24 hours of any storm event affecting the watershed of that stream.
- #4 The results shall be submitted to the Secretary prior to the 15th day of the second month following the date of sampling.

E5. Summary Water Quality Evaluation:

By March 1st of each year, the permittee shall have a qualified water quality specialist submit an evaluation to the Secretary of all the past calendar year ground and surface water quality data and determine what, if any, short or long term impacts there have been on ground or surface water quality.

E6. Sampling and Testing Procedures:

All wastewater, groundwater and surface water sampling, preservation, handling and test procedures used to comply with the monitoring requirements herein shall conform to procedures specified in the most current edition of Standard Methods for the Examination of Water and Wastewater APHA - AWWA - WPCF, and the Vermont Water Quality Standards unless written approval of an alternate method is received from the Agency.

E7. Miscellaneous:

If the permittees monitor any required parameter set forth in this permit for this treatment and disposal system more frequently or at additional locations outside the treatment facility than required by this permit, the results of such monitoring shall be included on the Discharge Monitoring Report Form.

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Secretary. Records shall include laboratory bench sheets showing exact location, time and composites of sample as well as analytical procedures used, interim results obtained and all calculations supporting the reported test results.

E8. Additional Monitoring Requirements:

No additional water quality monitoring of the system is required under this permit. However, the Secretary reserves the right to require additional monitoring of the system in accordance with Condition A(7) should operation of the system fail to meet the requirements of **Sections D(1), D(2) and D(5)**.

SECTION F "COMPLIANCE REVIEW"

If the results of any inspection or monitoring indicate that a violation of the effluent disposal rate, or a violation of the Vermont Water Quality Standards, is occurring, or is likely to occur, the Secretary may require the permittee to take appropriate corrective actions to eliminate or reduce the possibility of a violation.

The issuance of this permit, ID-9-0217, to the Catamount / Bolton Water and Sewer LLC and Mountain Operations and Development LLC, by the Secretary relies upon the data, designs, judgement and other information supplied by the applicant, the applicant's consultants and other experts who have participated in the preparation of the application. The Secretary makes no assurance that this system will meet the performance objectives of the applicant and no warranties or guarantees are given or implied.

SECTION G "EFFECTIVE DATE"

This Indirect Discharge Permit, ID-9-0217, issued to the Catamount Bolton Water and Sewer LLC and Mountain Operations and Development LLC, for the discharge of wastewater from the Bolton Valley Ski Area located in Bolton, Vermont is effective on this _____ day of _____, 2016.

Alyssa B. Schuren, Commissioner
Department of Environmental Conservation

DRAFT

By _____

Bryan Redmond, Director
Drinking Water and Groundwater Protection Division