

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

FACT SHEET
April 2015

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

FILE NO.: 11-25
PROJECT ID NO.: RU99-0348
NPDES NO: VT0020141
PERMIT NO.: 3-0363

NAME AND ADDRESS OF APPLICANT:

Troy Minerals, Inc.
PO Box 47
Colchester, VT 05446

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

South Wallingford Quarry
Route 7
Wallingford, Vermont

RECEIVING WATERS AND CLASSIFICATION: Otter Creek: Class B. 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.

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

The above named applicant has applied to the Vermont Department of Environmental Conservation for to renew a permit to discharge into the designated receiving waters. The facility is engaged in quarrying operations.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Watershed Management Division, National Life Drive, Montpelier, VT. Copies will be made at a cost based on the previous Secretary of State Official Fee Schedule for Copying Public Records from 8:00 am to 4:30 pm, Monday through Friday.

II. Description of Discharge

This permit authorizes the discharge of 1.0 MGD maximum day to Otter Creek of treated dewatering water and process wastewater from the South Wallingford Quarry. A quantitative description of the discharge in terms of significant effluent parameters is presented in section IV.

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
Monitoring Requirements: Page 2 and 3

IV. Permit Basis and Explanation of Effluent Limitation Derivation

History & Summary

Troy Minerals, Inc, purchased this facility from the Shelburne Limestone Corporation in December 2014. The

facility is located off Route 7, South Wallingford, VT. The quarry produces limestone. Groundwater seepage and stormwater must be removed from the quarry and is discharged to Otter Creek. The discharge is currently regulated under the terms and conditions of the Discharge Permit No. 3-0363, last issued April 24, 2007.

The floor of the quarry is graded such that all wastewater flows to a large sump located at the northeast corner of the quarry for treatment, the water treated via a settling sump and pumped at a controlled rate to a pipe located on the east side of the quarry and is discharged to Otter Creek. This water can also be used for dust control within the quarry when necessary.

On January 9, 2015, Troy Minerals, Inc. applied to renew this permit. Having completed its review of the application, the Department has made a determination to renew the discharge permit for this discharge. Following is a discussion of the specific factors considered in the renewal of this permit.

Effluent Limitations

Flow

The draft permit contains flow effluent limitation of 1.0 MGD, daily maximum. This limitation is unchanged from the permit that currently authorizes this discharge. Flow monitoring is required daily. This discharge is intermittent based on the groundwater seepage, dust suppression, and stormwater entering the quarry.

Turbidity

The permit contains a turbidity limitation of 10 NTU, annual average, during dry weather conditions. This limitation is based on Section 3-04.B of the Vermont Water Quality Standards effective October 30, 2015. Turbidity sampling is required once per month.

Total Suspended Solids (TSS)

The permit contains a 10 mg/l, daily maximum effluent limitation for Total Suspended Solids. TSS sampling is required once per month. This limitation and sampling frequency is unchanged from the permit that currently authorizes this discharge.

pH

The permit contains a pH limitation of 6.5 to 8.5 SU. This limitation is unchanged from the current permit and is based on Section 3-01.B.9 of the Vermont Water Quality Standards effective October 30, 2015. pH sampling is required once per month. This limitation and sampling frequency is unchanged from the permit that currently authorizes this discharge.

Special Conditions

Condition I.A.2.a requires that water recycling/reuse be maximized to reduce the volume of water discharged.

Condition I.A.2.b requires that the pump intake be sufficiently above the top layer of any settled material in the quarry sump to prevent the pumping of settled solids.

Condition I.A.2.c requires that the sump be maintained as necessary to maintain compliance with effluent limitations and the dates of solids removal noted on the WR-43 Discharge Monitoring Report.

Condition I.A.2.d requires that any material removed from the sump be disposed of in accordance with applicable state and federal regulations.

Condition I.A.2.e requires that the area downgradient of the outfall be regularly inspected for signs of erosion and prompt action taken to correct any of erosion resulting from the discharge.

Condition I.A.2.f requires that a spill prevention and control plan be implemented to prevent any fuel, chemical

spills, or leaks from entering the wastewater treatment system.

Total Metals, Nutrient, and Perchlorate Analyses

Heavy metals and perchlorate have been detected in some quarry discharges in this Vermont. The current permit contained a condition which required that this discharge be sampled for the following total metals: antimony, arsenic, cadmium, chromium, copper, iron, lead, nickel, selenium, silver, and zinc, and perchlorate. The results of this sampling indicated that these pollutants were not present in concentrations of concern. To confirm that this finding is still valid the permit requires an analysis of the effluent for heavy metals and perchlorate be conducted by June 30, 2017. Also to ensure that this discharge does not have the potential to cause or contribute to eutrophication of the receiving water and confirm to that this discharge does not cause a violation of the instream phosphorus criteria specified on the Vermont Water Quality Standards effective October 20, 2014, an analysis of the discharge for total phosphorus and total nitrogen must also be conducted June 30, 2017.

V. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from April 13, 2015 through May 13, 2015 during which time interested persons may submit their written views on the draft permit.

All written comments received by 4:30 PM on May 13, 2015, 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/htm/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

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