

LOCAL LAW NO. 3 OF YEAR 2019

Be it enacted by the BOARD OF TRUSTEES of the
Village of WATKINS GLEN, COUNTY OF SCHUYLER, as follows:

A local law to amend Local Law No. 8 of the Year 2003, relating to sewer use in the Village of Watkins Glen, New York.

Section 1. This Local Law is enacted pursuant to the Village Law of the State of New York, and the Municipal Home Rule Law of the State of New York.

Section 2. The purpose of this Local Law is to amend Local Law Number 8 of 2003 to require and regulate the use of Oil and Grease Separators in the Village Watkins Glen New York.

Section 3. Local Law No. 8 of the Year 2003, Section 6 thereof, entitled “Use of Public Sewers”, subparagraph (f), is hereby amended to provide as follows:

(f) Grease, oil and sand interceptors shall be provided at the owner’s expense when, in the opinion of the Village, they are necessary for the proper handling of liquid waste containing grease in excessive amounts, or flammable waste, sand or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Village and shall be located to be readily and easily accessible for cleaning and inspection. Grease and oil interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, water-tight, and equipped with easily removable covers which, when bolted in place, shall be gas-tight and water-tight.

Where food waste grinders connect to grease traps or grease interceptors, the grease interceptor shall be sized and rated for the discharge of the food waste grinder.

Oil and grease or sediment separators shall be required for all automotive repair garages, gasoline service stations, car washing facilities, factories, restaurants, school kitchens, food service facilities, banquet facilities, clubs, hospitals, nursing homes, and any other commercial establishment where grease, oily or flammable liquid wastes are produced. The separators shall collect all the oil-bearing, grease-bearing or flammable waste prior to discharge from the building lateral. The design, operations and recordkeeping for separators required by this local law, and the procedures for obtaining a waiver from the requirements of this local law and compliance, shall be regulated in accordance with Guidelines for Oil and Grease Separators Village of Watkins Glen, to be promulgated and adopted by resolution of the Village Board of Trustees, as may be amended from time to time.

Section 4. This Local Law shall take effect June 1, 2019.

Guidelines for Oil and Grease Separators
Village of Watkins Glen

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Dated: May 7, 2019

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INTRODUCTION

These guidelines are promulgated pursuant to Section 6 (f) of Local Law No. 8 of 2003, as amended by Local Law No. 3 of 2019. The objective is to prevent the introduction of excessive amounts of oil and grease into the Village's wastewater collection system. An exterior oil and grease interceptor is required for adequate protection of the sanitary sewer system.

These guidelines are designed to insure uniform requirements for installation, operation, and maintenance of oil and grease separators within the jurisdiction of the Village of Watkins Glen, New York (the "Village"). Oils and greases are produced in quantity where commercial food preparation takes place and in certain industrial processes. Oils and grease as well as grit and sediments are also generated at vehicle maintenance shops and garages. These oils, and greases are limited to one hundred milligrams per liter (100 mg/l) in sewage discharges to the public sewer. This limit is necessary in order to protect against build-up and blockages of the sewer pipes and to prevent sewage treatment plant upsets.

I. APPLICABILITY

Oil and grease and/or sediment separators are to be provided when necessary for the proper handling of Sewage containing excessive amounts of oils and greases, sediment, or other harmful ingredients that are removable by a separator tank.

Businesses for which the guidelines apply include all automotive repair garages, gasoline service stations, car washing facilities, factories, restaurants, school kitchens, food service facilities, banquet facilities, clubs, hospitals, nursing homes, and any other commercial establishment where grease, oily or flammable liquid wastes are produced, as provided in Section 6 (f) of Local Law No. 8 of 2003, as amended by Local Law No. 3 of 2019.

The Village's minimum standard for an oil and grease or sediment separator is an exterior unit of at least 750 gallons. Interior, under the counter oil and grease separators are designed to protect plumbing from blockages, but are not accepted for protection of the public sanitary sewer system. Plumbing codes specify that dishwashers not be connected to under the counter oil and grease separators. Dishwashers are a significant source of oil and grease which can accumulate downstream in the public sewer system. Furthermore, the under the counter type oil and grease separators are designed to gravimetrically separate or float the lighter oil and grease from wastewater. This separation mechanism is independent of the temperature of the wastewater. While temperature is not a factor in the design of under the counter type oil and grease separators, it is a factor in the build-up of oil and grease on the sewer pipe surfaces. As warm kitchen wastewaters enter the public sanitary sewers, they cool rapidly, and any oil and grease fraction that congeals at room temperature tends to adhere to the walls of the sewer pipe. This build-up of oil and grease is what contributes to sewer blockages. Therefore, while under the counter oil and grease separators are permitted by plumbing codes, and may protect the building plumbing from blockages, they do not substitute for the exterior oil and grease separator required by Local Law No. 8 of 2003 as Amended.

II. DESIGN GUIDELINES

Sizing

The minimum acceptable size is 750 gallons. Sizing must allow for adequate retention time and a workable maintenance schedule.

The formulas for sizing oil and grease interceptors, are as follows:

1. Restaurants:

$$\text{Tank Volume (Gallons)} = 7.5 \times M$$

Where M = Number of meals prepared in 1 day

2. Hospitals, Nursing Homes, etc.:

$$\text{Tank Volume (Gallons)} = 22 \times B$$

Where B = Number of Beds

Temperature

Discharges at temperatures that will inhibit biological activity at the Sewage Treatment Plant or cause damage to the Sewerage System are prohibited. In no case may liquid or vapors having a temperature greater than 122 degrees Fahrenheit (50 degrees Celsius) be discharged or wastewater of such quantity and temperature as to cause the temperature of the influent at the treatment plant to exceed 104 degrees Fahrenheit (40 degrees Celsius). However, the Village may require a lower temperature for oil or grease removal facilities.

Layout

The required plumbing connections to the oil and grease separator include kitchen sinks, bar sinks, dishwashers or like fixtures in addition to floor drains from kitchens and other food preparation areas. Floor drains in public areas such as vestibules, grocery, and seating areas are not required to connect to the separator. Wastewater drains from toilets, hand sinks, clothes washers or other personal hygiene fixtures shall not be connected to oil and grease separator.

In the plumbing layout of commercial buildings which are not restaurants but may in the future be suitable for food preparation, consideration should be given to the possible future need for an oil and grease separator. Wastewater drain lines from areas suitable for food preparation should be kept separate from other wastewater drain lines to a point convenient to install an exterior oil and grease separator. For buildings with elevators, the use of oil smart type pump in the sump will be required.

Installation

Proper installation is crucial for optimum performance of the separator. The Village's staff will include review of the oil and grease separator installation as part of the plan approval and inspection of the sewer connection.

The following are additional guidelines for proper installation. Grease and oil separators are to be:

- Vented correctly with a cleanout located immediately downstream;
- Readily accessible for inspection, cleaning, and maintenance;
- Shall not be installed backwards;
- Shall not have domestic wastewater connected into the separator;
- Shall be located as close as possible to the source of wastewater to be treated.

Application for a waiver from these requirements shall be reviewed on a case-by-case basis. Due to strict Federal prohibitions against Sanitary Sewer Overflows (SSOs), facilities that are unable to install properly sized oil and grease separators due to space limitations, may not be permitted to discharge oil and grease laden wastewater.

III. WAIVER

Installation

In extenuating circumstances, relief from the minimum requirements may be sought. Extenuating circumstances apply only to existing buildings that are either converted or modified for retail food sales, or commercial facilities with oil, grease, or sediment potential.

The installation of a 750-gallon exterior separator for some existing buildings may be prohibitive. Businesses demonstrating that an existing building layout prevents installation of an exterior separator (or grit chamber) which can also demonstrate that their oil, grease and/or sediment discharge will be controlled, may apply for a waiver.

An application for a waiver that describes the facility's operations and facility's layout must be submitted for review. The application shall include a description of how grease management will be implemented in a manner so as to prevent oil and grease, or grit from entering the sanitary sewer. The application becomes a waiver when signed by the Sewer Department Manager. Alternative oil and grease/sediment control procedures or oil and grease/sediment separation devices less than the minimum standard will be considered on a case by case basis.

Any waiver granted shall be conditional based on no resultant oil and grease or grit buildup in the sewer lines. In all cases it remains the Users responsibility to maintain the control devices in effective operating condition. The following information is to be submitted for consideration of a waiver:

1. Reason for the Request. To apply for a waiver, a written signed application is required explaining why a waiver is being requested. The application shall include a description as to why the Village's standards for exterior oil and grease/grit separators cannot be met. Plans illustrating the existing layout of the facility shall be included as part of the description. The activities proposed for the site shall be presented to explain why oil and grease production from food preparation (or other oil, grease or sediment producing activities) will not result in excessive oil, grease, or sediment entering the sanitary sewer.

2. Description of Management Practices. A description of how oil and grease or sediment will be controlled in lieu of an outside separator is required. The "Best Management Practices" (BMP) that will be implemented during food preparation and cleaning operations shall also be included. BMPs include, but are not limited to, consideration of use of disposable dishware, use of off-site prepared foods, etc. If data is available from similar establishments, include this information also. Note that use of emulsifying or solubilizing substances, enzymes, heat or other similar treatments are not acceptable methods of oil and grease control.

3. Proposed Facilities Plan. Provide plans of the proposed modifications including equipment and plumbing. The layout of food preparation and serving areas, along with sewer connections, profiles and details shall be included. Dye, smoke testing, or televising, of existing sewers may be necessary where plumbing plans are not available. The proposed plans shall be described in terms of water use,

food handling or preparation, and sanitation. The oil and grease or sediment removal and disposal procedures shall also be included.

4. Grease Traps. Where an exterior oil and grease separator is not being provided, interior separators, (herein referred to as Grease Traps), may be considered. The proposed type, size, location, and plumbing connections of the internal oil and grease separators (Grease Traps) shall be indicated.

Interior Grease Traps shall be approved by the Village and shall conform to the standard in the Plumbing and Drainage Institute (PDI) Standards G101. Grease Traps shall be installed in strict accordance with manufacturer's instructions. Grease Traps shall be equipped with a cover that can be opened for inspection and sampling. A mechanism for a secure closing is also required.

The capacity of the Grease Trap shall be related to the flow rate as indicated in the Table 1 and the appendix of the PDI Standards G101 document. Flow-through rates shall be calculated in accordance with the procedures in the PDI Standard G101. Grease Traps shall be equipped with a device to control the rate of flow through the unit. The rate of flow in gallons per minute shall not exceed the manufacturers rated capacity recommended for the unit. The flow-control device and the Grease Trap shall be vented in accordance with the New York State Plumbing Code's current edition. The flow-control device shall be vented and terminate not less than six (6) inches above the flood rim level or be installed in accordance with the manufacturer's instructions.

5. Maintenance. The User shall be solely responsible for the cost of Grease Trap installation, visual inspection, cleaning, and maintenance. Users may contract with a permitted grease hauler for cleaning services, or may develop a written protocol to perform Grease Trap cleaning and disposal. Cleaning and maintenance is recommended when the total volume of the captured grease and solid material displaces more than 25% of the total storage volume of the unit. The User shall determine the frequency at which their grease traps shall be cleaned. All Grease Traps shall be opened and visually inspected, at least once per week, and cleaned and maintained as necessary. The User shall be responsible for maintaining the Grease Traps in working order. Grease and solid materials removed from Grease Traps shall be disposed of as solid waste.

6. Maintenance Agreement. The signed application acknowledges that the information therein is true and correct, and that the activities therein will be implemented.

7. Recordkeeping. Facilities shall maintain records of the date and time of all visual inspections, cleaning, and maintenance events for each Grease Trap in a bound logbook and shall make this book available for inspection. Any disposal invoices shall also be maintained and made available upon request. The logbook and invoices shall be kept on file for a minimum of three (3) years. The written protocol for cleaning and maintenance procedures shall also be readily available for inspection.

Waiver Approvals

Applications for a waiver will be considered on a case by case basis. If the application is approved, District signature of the application will constitute waiver approval. The waiver will remain effective on a conditional basis pending continued compliance with the oil and grease discharge limits.

The waiver is non-transferable. A new application shall be submitted if ownership should change. The waiver may be withdrawn upon development of oil and grease or grit problems in the public sewer traceable to the site; or if the commercial or institutional activity at the site materially changes. Any User whose discharge results in sewer blockages shall be grounds for termination of the waiver.

IV. OPERATIONS

Inspections

The User is responsible for maintaining the oil and grease separator in efficient operating condition. This requires regular inspections, servicing and cleaning. The Sewer District maintains the right to inspect and sample oil and grease separators in order to determine compliance with these guidelines.

Regular inspections of the oil and grease separator are critical for establishing proper maintenance and efficiency. Through frequent inspections, a regular cleaning schedule can be established. Structural components shall also be inspected regularly for potential problems i.e., damaged baffles, cover gasket, or blocked air relief valves. Finally, it is recommended that inspections are conducted before and after the oil and grease separator is serviced.

Service

Servicing by removing the accumulated fats, oils and greases is required to be performed at frequencies necessary to protect the sewer system against accumulation of grease and oils. The Village recommends the 25% rule. The rule specifies that the depth of oil and grease (floating and settled) shall not be greater than 25% of the total operating depth of the separator. The operating depth is determined by measuring the internal depth from the outlet water elevation to the bottom of the oil and grease separator.

All oil and grease separators are to be pumped completely when serviced. Excessive solids must be scraped from the walls and baffles, and inlet/outlet ports shall be cleared. Separated gray water already pumped may be re-introduced only after a minimum duration of twenty (20) minutes retention time in the truck's tank. No oil, grease, or solids may be re-introduced into the oil and grease separator.

The use of enzymes, solvents, or emulsifiers does not substitute for the exterior oil and grease separator requirement. Additives to treat oils and greases in separators have not been found effective in preventing oil and grease accumulations in the public sewerage facilities. Furthermore, where oil and grease separation is disrupted, the trapped oil and grease may be released from the oil and grease separator and add to downstream problems.

Accordingly, temperature requirements for the sewer discharge are also imposed. These guidelines require that all discharge temperatures remain below 122 degrees Fahrenheit. With oil and grease removal facilities, the Sewer District may require lower temperatures.

Maintenance

In order to maintain compliance and minimize generation of odors, the Village recommends a minimum cleaning frequency of once every three (3) months. However, due to facility's various operational conditions, cleaning may be required as often as once a week to ensure compliance.

V. DISPOSAL

It is the responsibility of the facility's owner/operator to ensure that the oil and grease waste hauler is in compliance with all Federal, State and local regulations concerning the pumping of oil and grease separators and the hauling and disposal of their contents.

VI. RECORD KEEPING

The facility User shall maintain records of the date and time of all cleaning, maintenance, and inspection of the separator(s) in a bound logbook. Waste hauler manifests showing the name of the hauler, dates of service, quantity of waste removed, and final disposal site shall be maintained on site for a minimum period of three (3) years. All records shall be available for inspection by the Village Code and Wastewater Departments.

VII. COMPLIANCE

Should the Village find that a User has violated or is violating any provision of these Guidelines, the Village may serve the owner/operator a Notice of Violation. The facility shall have a twenty (20) day period to make corrections required to bring the facility into compliance. Should circumstances require additional time, a request to the Village shall be made within the twenty (20) day period. Approval is subject to the acceptance of the schedule by the Village.

Any User causing excessive oil and grease backups will be held responsible for costs associated with cleaning and inspecting the sanitary sewer system in order to return it to normal operation. Any User violating these guidelines will also be subject to penalties for non-compliance as provided pursuant to Local Law No. 3 of 2008 as Amended, that governs the use of the sanitary sewer systems, including suspension of discharge privileges.

Information regarding these guidelines is available from the Village offices or the Wastewater Treatment Facility.