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ONTARIO REGULATION 215/95

EFFLUENT MONITORING AND EFFLUENT LIMITS — ELECTRIC POWER GENERATION SECTOR

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This Regulation is made in English only.

CONTENTS

|  |  |  |
| --- | --- | --- |
|  |  | Sections |
| [PART I](#BK0" \o "PART I) | GENERAL |  |
|  | [Interpretation](#BK1" \o "Interpretation) | 1 |
|  | [Purpose](#BK2" \o "Purpose) | 2 |
|  | [Application](#BK3" \o "Application) | 3 |
|  | [Obligations under Approvals, Orders, etc.](#BK4" \o "Obligations under Approvals, Orders, etc.) | 4 |
|  | [By-passes](#BK5" \o "By-passes) | 5 |
|  | [Sampling and Analytical Procedures](#BK6" \o "Sampling and Analytical Procedures) | 6 |
| [PART II](#BK7" \o "PART II) | SAMPLING POINTS |  |
|  | [Establishment and Elimination of Sampling Points](#BK8" \o "Establishment and Elimination of Sampling Points) | 7 |
|  | [Reports on Sampling Points](#BK9" \o "Reports on Sampling Points) | 8 |
|  | [Use of Sampling Points Established under this Part](#BK10" \o "Use of Sampling Points Established under this Part) | 9 |
| [PART III](#BK11" \o "PART III) | CALCULATION OF CONCENTRATIONS AND LOADINGS |  |
|  | [Calculations under this Part — General](#BK12" \o "Calculations under this Part — General) | 10 |
|  | [Calculation of Concentrations — Non-event Process Effluent](#BK13" \o "Calculation of Concentrations — Non-event Process Effluent) | 11 |
|  | [Calculation of Concentrations — Event Process Effluent](#BK14" \o "Calculation of Concentrations — Event Process Effluent) | 12 |
|  | [Calculation of Loadings — Non-event Process Effluent](#BK15" \o "Calculation of Loadings — Non-event Process Effluent) | 13 |
|  | [Calculation of Loadings — Event Process Effluent](#BK16" \o "Calculation of Loadings — Event Process Effluent) | 14 |
|  | [Calculation of Loadings — Building Effluent](#BK17" \o "Calculation of Loadings — Building Effluent) | 15 |
| [PART IV](#BK18" \o "PART IV) | PARAMETER AND LETHALITY LIMITS |  |
|  | [Parameter Limits](#BK19" \o "Parameter Limits) | 16 |
|  | [Lethality Limits](#BK20" \o "Lethality Limits) | 17 |
| [PART V](#BK21" \o "PART V) | MONITORING |  |
|  | [Monitoring — General](#BK22" \o "Monitoring — General) | 18 |
|  | [Monitoring — Non-event Process Effluent — Daily](#BK23" \o "Monitoring — Non-event Process Effluent — Daily) | 19 |
|  | [Monitoring — Non-event Process Effluent — Weekly](#BK24" \o "Monitoring — Non-event Process Effluent — Weekly) | 20 |
|  | [Monitoring — Event Process Effluent — Daily and Weekly](#BK25" \o "Monitoring — Event Process Effluent — Daily and Weekly) | 21 |
|  | [Monitoring — Non-event Process Effluent — Quality Control](#BK26" \o "Monitoring — Non-event Process Effluent — Quality Control) | 22 |
|  | [Monitoring — Non-event and Event Process Effluent — pH Measurement](#BK27" \o "Monitoring — Non-event and Event Process Effluent — pH Measurement) | 23 |
|  | [Monitoring — Acute Lethality Testing — Rainbow Trout](#BK28" \o "Monitoring — Acute Lethality Testing — Rainbow Trout) | 24 |
|  | [Monitoring — Acute Lethality Testing — Daphnia magna](#BK29" \o "Monitoring — Acute Lethality Testing — Daphnia magna) | 25 |
|  | [Monitoring — Chronic Toxicity Testing — Fathead Minnow and Ceriodaphnia dubia](#BK30" \o "Monitoring — Chronic Toxicity Testing — Fathead Minnow and Ceriodaphnia dubia) | 26 |
|  | [Monitoring — Building Effluent — Quarterly](#BK31" \o "Monitoring — Building Effluent — Quarterly) | 27 |
| [PART VI](#BK32" \o "PART VI) | EFFLUENT VOLUME |  |
|  | [Flow Measurement](#BK33" \o "Flow Measurement) | 28 |
|  | [Calculation of Stream and Plant Volumes](#BK34" \o "Calculation of Stream and Plant Volumes) | 29 |
| [PART VII](#BK35" \o "PART VII) | STORM WATER CONTROL STUDY |  |
|  | [Storm Water Control Study](#BK36" \o "Storm Water Control Study) | 30 |
| [PART VIII](#BK37" \o "PART VIII) | RECORDS AND REPORTS |  |
|  | [Record Keeping](#BK38" \o "Record Keeping) | 31 |
|  | [Reports Available to the Public](#BK39" \o "Reports Available to the Public) | 32 |
|  | [Reports to the Director — General](#BK40" \o "Reports to the Director — General) | 33 |
|  | [Reports to the Director on Compliance with Section 5 and Part IV](#BK41" \o "Reports to the Director on Compliance with Section 5 and Part IV) | 34 |
|  | [Quarterly Reports to the Director](#BK42" \o "Quarterly Reports to the Director) | 35 |
|  | [Reports to the Director on Chronic Toxicity Testing](#BK43" \o "Reports to the Director on Chronic Toxicity Testing) | 36-39 |
| [Schedule 1](#BK44" \o "Schedule 1) | List of regulated plants |  |
| [Schedule 2](#BK45" \o "Schedule 2) | Types of non-event process effluent streams, limits, monitoring frequency |  |
| [Schedule 3](#BK46" \o "Schedule 3) | Types of event process effluent streams, limits, monitoring frequency |  |

PART I  
GENERAL

Interpretation

**1.**(1)  In this Regulation,

“building effluent” means effluent that has been collected within a building from equipment drains, floor drains or trenches, whether or not it is combined with cooling water;

“building effluent monitoring stream” means a building effluent stream on which a sampling point is established under section 7;

“building effluent sampling point” means a sampling point established on a building effluent stream under section 7;

“building parameter” means a parameter that is listed in subsection 27 (1);

“Director”, in relation to obligations of a discharger, means a Director appointed under section 5 of the Act and responsible for the region in which the discharger’s plant is located and includes an alternate named by the Director;

“discharger” means an owner or person in occupation or having the charge, management or control of a plant to which this Regulation applies;

“event process effluent monitoring stream” means an event process effluent stream on which a sampling point is established under section 7;

“event process effluent sampling point” means a sampling point established on an event process effluent stream under section 7;

“limited parameter”,

(a) in relation to a plant named in Schedule 2, means a parameter for which a limit is specified in Column 4 or 5 of the Table for the plant in Schedule 2, and

(b) in relation to a plant named in Schedule 3, means a parameter for which a limit is specified in Column 4 or 5 of the Table for the plant in Schedule 3;

“non-event process effluent monitoring stream” means a non-event process effluent stream on which a sampling point is established under section 7;

“non-event process effluent sampling point” means a sampling point established on a non-event process effluent stream under section 7;

“pick up”, in relation to a sample, means pick up for the purpose of storage, including storage within an automatic sampling device, and transportation to and analysis at a laboratory;

“plant” means an industrial facility and the developed property, waste disposal sites and wastewater treatment facilities associated with it;

“process change” means a change in equipment, production processes, process materials or treatment processes;

“quarter” means all or part of a period of three consecutive months beginning on the first day of January, April, July or October;

“semi-annual period” means all or part of a period of six months beginning on the first day of January or July;

“storm water effluent” means run-off from a storm event or thaw that is not used in any industrial process. O. Reg. 310/17, s. 1.

(2)  The following are types of non-event process effluent streams:

1. A stream of effluent that is discharged from a water treatment plant at a plant, whether or not it is combined with cooling water or storm water effluent.

2. A stream of effluent that is discharged from an industrial sewage treatment plant at a plant, whether or not it is combined with cooling water or storm water effluent.

3. A stream of ash transport water that has received treatment, whether or not it is combined with cooling water or storm water effluent.

4. A stream of ash quench water, whether or not it is combined with cooling water or storm water effluent.

5. A stream of boiler seal water, whether or not it is combined with cooling water or storm water effluent.

6. A stream of effluent that is discharged from an oily water separator on a continuous basis at a plant, whether or not it is combined with cooling water or storm water effluent.

7. A stream of effluent that is discharged from an enriching unit stripper, whether or not it is combined with cooling water or storm water effluent.

8. A stream of ash transport water that has not received treatment, whether or not it is combined with cooling water or storm water effluent.

(3)  The following are types of event process effluent streams:

1. A stream of effluent that is discharged from a coal storage site at a plant, whether or not it is combined with cooling water or storm water effluent.

2. A stream of effluent that is discharged from a radioactive liquid waste management system tank at a plant, whether or not it is combined with cooling water or storm water effluent.

3. A stream of effluent that results from any cleaning or maintenance operations at a plant, whether or not it is combined with cooling water or storm water effluent.

4. A stream of effluent that is discharged from an oily water separator on other than a continuous basis at a plant, whether or not it is combined with cooling water or storm water effluent.

5. A stream of effluent that is discharged from an enriching unit stripper effluent holding lagoon.

(4)  Despite paragraph 6 of subsection (2) and paragraph 4 of subsection (3), a stream of effluent that is discharged from an oily water separator and consists only of storm water effluent is not a type of non-event process effluent or event process effluent stream.

(5)  For greater certainty, this Regulation applies both to effluent streams that discharge continuously and to effluent streams that discharge intermittently.

(6)  An obligation on a discharger to do a thing under this Regulation is discharged if another person has done it on the discharger’s behalf. O. Reg. 215/95, s. 1.

Purpose

**2.**The purpose of this Regulation is to monitor and control the quality of effluent discharged from the plants listed in Schedule 1. O. Reg. 215/95, s. 2.

Application

**3.**(1)  This Regulation applies to every plant that is listed in Schedule 1, except for,

(a) J.C. Keith Thermal Generating Station; and

(b) R.L. Hearn Thermal Generating Station.

(2)  This Regulation applies to a plant named in clause (1) (a) or (b) beginning on the first day on which a non-event process effluent stream flows at the plant.

(3)  This Regulation does not apply with respect to the discharge of effluent to a municipal sanitary sewer. O. Reg. 215/95, s. 3.

Obligations under Approvals, Orders, etc.

**4.**For greater certainty, subject to subsection 186 (4) of the Act, the requirements of this Regulation are in addition to and independent of requirements in an approval, order, direction or other instrument issued under any Act. O. Reg. 215/95, s. 4.

By-passes

**5.**Beginning on April 13, 1998, a discharger shall not permit effluent that would ordinarily flow past a sampling point established under this Regulation to be discharged from the discharger’s plant without flowing past that sampling point, regardless of whether it would be convenient to do so because of a maintenance operation, a breakdown in equipment or any scheduled or unscheduled event. O. Reg. 215/95, s. 5.

Sampling and Analytical Procedures

**6.**(1)  Each discharger shall carry out the establishment of sampling point obligations of this Regulation and the sampling and analysis obligations of this Regulation, including quality control sampling and analysis obligations, in accordance with the procedures described in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time. O. Reg. 240/07, s. 1.

(2)  Each discharger shall maintain the sampling equipment used at the discharger’s plant for sampling required by this Regulation in a way that ensures that the samples collected at the plant under this Regulation accurately reflect the level of discharge of each limited parameter and building parameter from the plant. O. Reg. 215/95, s. 6 (2).

PART II  
SAMPLING POINTS

Establishment and Elimination of Sampling Points

**7.**(1)  Each discharger shall, by July 12, 1995, establish a sampling point on each non-event process effluent stream and event process effluent stream at the discharger’s plant, as necessary so that the concentrations determined under sections 11 and 12 and the plant loadings calculated under sections 13 and 14 for each limited parameter accurately reflect the level of discharge of each such parameter from the plant.

(2)  If circumstances change so that a new sampling point is necessary at a discharger’s plant in order to permit the calculation of concentrations under sections 11 and 12 and the calculation of loadings under sections 13 and 14 for each limited parameter that accurately reflect the level of discharge of each such parameter from the plant, the discharger shall, within 30 days of the change, establish the new sampling point.

(3)  A discharger may eliminate a sampling point established under subsection (1) or (2) if the sampling point is no longer necessary to permit the calculation of concentrations under sections 11 and 12 and the calculation of loadings under sections 13 and 14 for each limited parameter that accurately reflect the level of discharge of each such parameter from the plant.

(4)  For the purposes of this section, except for subsection (6), a concentration for a parameter or a loading for a parameter that is based on analytical results that are significantly affected by dilution or masking due to the merging of streams upstream of a sampling point at a plant is not a concentration or a loading that accurately reflects the level of discharge of the parameter from the plant.

(5)  In determining what is necessary to meet a discharger’s obligations to establish sampling points under this section, except for subsection (6), the discharger shall consider both which streams should have sampling points and where on a stream a sampling point should be located.

(6)  Each discharger shall, by July 12, 1995, establish a sampling point on each building effluent stream at the discharger’s plant, as necessary so that no building effluent is discharged from the plant to surface water without flowing past a sampling point. O. Reg. 215/95, s. 7.

Reports on Sampling Points

**8.**(1)  By July 24, 1995, each discharger shall submit to the Director a list and plot plan showing the sampling points established under this Regulation at the discharger’s plant as of July 12, 1995.

(2)  Within 30 days after establishing a sampling point under this Regulation that is not shown on a list and plot plan submitted under this section, the discharger shall give the Director a written notice describing the location of the sampling point, together with a revised list and plot plan showing the sampling point.

(3)  Within 30 days after eliminating a sampling point under this Regulation that is shown on a list and plot plan submitted under this section, the discharger shall give the Director a written notice describing where the sampling point used to be, together with a revised list and plot plan without the sampling point. O. Reg. 215/95, s. 8.

Use of Sampling Points Established under this Part

**9.**Except as permitted under sections 21, 23, 24 and 26, each discharger shall use the sampling points established under this Part for all sampling required by this Regulation. O. Reg. 215/95, s. 9.

PART III  
CALCULATION OF CONCENTRATIONS AND LOADINGS

Calculations under this Part — General

**10.**(1)  For the purposes of performing a calculation under sections 11 to 15, a discharger shall use the actual analytical result obtained by the laboratory. O. Reg. 215/95, s. 10 (1).

(2)  Despite subsection (1), where the actual analytical result is less than one-tenth of the analytical method detection limit set out in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time, the discharger shall use the value zero for the purpose of performing a calculation under sections 11 to 15. O. Reg. 240/07, s. 2.

(3)  Each discharger shall ensure that each calculation of a concentration required by section 11 or 12 is performed as soon as reasonably possible after the analytical results on which the calculation is based become available to the discharger. O. Reg. 215/95, s. 10 (3).

(4)  Each discharger shall ensure that each calculation of a loading required by section 13, 14 or 15 is performed in time to comply with subsection 35 (4). O. Reg. 215/95, s. 10 (4).

Calculation of Concentrations — Non-event Process Effluent

**11.**(1)  Each discharger shall calculate, in milligrams per litre, a monthly average concentration for each limited parameter in each non-event process effluent monitoring stream of the discharger for each month.

(2)  For the purposes of subsection (1), a monthly average concentration for a parameter for a month is the arithmetic mean of the analytical results obtained for the parameter from the samples collected under section 19 or 20, as the case may be, from the stream for the month. O. Reg. 215/95, s. 11.

Calculation of Concentrations — Event Process Effluent

**12.**(1)  Each discharger for a plant at which there is an event process effluent monitoring stream of a type described in paragraph 2 of subsection 1 (3) shall calculate, in milligrams per litre, a monthly average concentration for each limited parameter in the stream of that type at the discharger’s plant for each month.

(2)  The discharger for the Lambton Thermal Generating Station shall calculate, in milligrams per litre, a monthly average concentration for each limited parameter in each stream at the plant of a type described in paragraph 1 of subsection 1 (3) for each month.

(3)  For the purposes of subsections (1) and (2), a monthly average concentration for a parameter for a month is the arithmetic mean of the analytical results obtained for the parameter from the samples collected under section 21 from the stream or from a tank that discharges into the stream for the month. O. Reg. 215/95, s. 12.

Calculation of Loadings — Non-event Process Effluent

**13.**(1)  Each discharger shall calculate, in kilograms, a daily non-event process effluent stream loading for each limited parameter in each non-event process effluent monitoring stream of the discharger for each day on which a sample is collected under this Regulation from the stream for analysis for the parameter.

(2)  When calculating a daily stream loading under subsection (1), the discharger shall multiply, with the necessary adjustment of units to yield a result in kilograms, the analytical result obtained from the sample for the parameter by the daily volume of effluent, as determined under section 28, for the stream for the day.

(3)  Each discharger shall calculate, in kilograms, a daily non-event process effluent plant loading for each limited parameter for each day for which the discharger is required to calculate a daily non-event process effluent stream loading for the parameter under subsection (1).

(4)  For the purposes of subsection (3), a daily non-event process effluent plant loading for a parameter for a day is the sum, in kilograms, of the daily non-event process effluent stream loadings for the parameter calculated under subsection (1) for the day.

(5)  Where a discharger calculates only one daily non-event process effluent stream loading for a parameter for a day under subsection (1), the daily non-event process effluent plant loading for the parameter for the day for the purposes of subsection (3) is the single daily non-event process effluent stream loading for the parameter for the day.

(6)  Each discharger shall calculate, in kilograms, a monthly average non-event process effluent plant loading for each limited parameter for each month in which a sample is collected under this Regulation more than once from a non-event process effluent monitoring stream at the discharger’s plant for analysis for the parameter.

(7)  For the purposes of subsection (6), a monthly average non-event process effluent plant loading for a parameter for a month is the arithmetic mean of the daily non-event process effluent plant loadings for the parameter calculated under subsection (3) for the month. O. Reg. 215/95, s. 13.

Calculation of Loadings — Event Process Effluent

**14.**(1)  Each discharger shall calculate, in kilograms, a 24-hour event process effluent stream loading for each limited parameter in each event process effluent monitoring stream of the discharger for each 24-hour period ending at noon in which a sample is collected under this Regulation from the stream or from a tank that discharges into the stream for analysis for the parameter.

(2)  When calculating an event process effluent stream loading under subsection (1), the discharger shall multiply, with the necessary adjustment of units to yield a result in kilograms, the analytical result obtained from the sample for the parameter by the 24-hour volume of effluent, as determined under section 28, for the stream for the 24-hour period.

(3)  Each discharger shall calculate, in kilograms, a 24-hour event process effluent plant loading for each limited parameter for each 24-hour period ending at noon for which the discharger is required to calculate a 24-hour event process effluent stream loading for the parameter under subsection (1).

(4)  For the purposes of subsection (3), a 24-hour event process effluent plant loading for a parameter for a 24-hour period ending at noon is the sum, in kilograms, of the 24-hour event process effluent stream loadings for the parameter calculated under subsection (1) for the period.

(5)  Where a discharger calculates only one 24-hour event process effluent stream loading for a parameter for a 24-hour period ending at noon under subsection (1), the 24-hour event process effluent plant loading for the parameter for the period, for the purposes of subsection (3), is the single 24-hour event process effluent stream loading for the parameter for the period.

(6)  Each discharger shall calculate, in kilograms, a monthly average event process effluent stream loading for each limited parameter for each event process effluent monitoring stream of the type described in paragraph 2 of subsection 1 (3) at the discharger’s plant for each month in which a sample is collected under this Regulation more than once from the stream or from a tank that discharges into the stream for analysis for the parameter.

(7)  For the purposes of subsection (6), a monthly average event process effluent stream loading for a parameter for a stream for a month is the arithmetic mean of the 24-hour event process effluent stream loadings for the parameter calculated under subsection (1) for the stream for the month. O. Reg. 215/95, s. 14.

Calculation of Loadings — Building Effluent

**15.**(1)  Each discharger shall calculate, in kilograms, a daily building effluent stream loading for each building parameter in each building effluent monitoring stream of the discharger for each day on which a sample is collected under this Regulation from the stream for analysis for the parameter.

(2)  When calculating a daily stream loading under subsection (1), the discharger shall multiply, with the necessary adjustment of units to yield a result in kilograms, the analytical result obtained from the sample for the parameter by the daily volume of effluent, as determined under section 28, for the stream for the day.

(3)  Each discharger shall calculate, in kilograms, a quarterly building effluent plant loading for each building parameter for each quarter in which the discharger is required to calculate a daily building effluent stream loading for the parameter under subsection (1).

(4)  For the purposes of subsection (3), a quarterly effluent plant loading for a parameter for a quarter is the sum of the daily building effluent stream loadings for the parameter calculated under subsection (1) for the quarter. O. Reg. 215/95, s. 15.

PART IV  
PARAMETER AND LETHALITY LIMITS

Parameter Limits

**16.**(1)  Each discharger shall ensure that each analytical result obtained for each limited parameter from each sample collected from each non-event process effluent monitoring stream at the discharger’s plant does not exceed the daily concentration limit specified for the parameter in Column 4 of the Table for the plant in Schedule 2. O. Reg. 310/17, s. 2 (1).

(2)  Each discharger shall ensure that each monthly average concentration calculated for a limited parameter under subsection 11 (1) in connection with each non-event process effluent monitoring stream at the discharger’s plant does not exceed the monthly average concentration limit specified for the parameter in Column 5 of the Table for the plant in Schedule 2. O. Reg. 310/17, s. 2 (2).

(3)  Despite subsections (1) and (2), where the non-event process effluent stream is of the type described in paragraph 1 of subsection 1 (2) and aluminum-based water treatment chemicals are not used to treat effluent in the water treatment plant that discharges into the stream, the discharger need not ensure,

(a) that the analytical result obtained for the parameter aluminium does not exceed the daily concentration limit specified for the parameter in Column 4 of the Table for the plant in Schedule 2; or

(b) that the monthly average concentration calculated for the parameter aluminum does not exceed the monthly average concentration limit specified for the parameter in Column 5 of the Table for the plant in Schedule 2. O. Reg. 310/17, s. 2 (3, 4).

(4)  Each discharger shall ensure that each analytical result obtained for each limited parameter from each sample collected from each event process effluent monitoring stream at the discharger’s plant does not exceed the daily concentration limit specified for the parameter in Column 4 of the Table for the plant in Schedule 3. O. Reg. 310/17, s. 2 (5).

(5)  Each discharger shall ensure that each monthly average concentration calculated for a limited parameter under section 12 in connection with each event process effluent monitoring stream at the discharger’s plant does not exceed the monthly average concentration limit specified for the parameter in Column 5 of the Table for the plant in Schedule 3. O. Reg. 310/17, s. 2 (6).

(6)  Each discharger shall control the quality of each non-event process effluent monitoring stream and each event process effluent monitoring stream at the discharger’s plant to ensure that the pH value of any sample collected at a non-event process effluent sampling point or event process effluent sampling point at the plant is within the range of 6.0 to 9.5. O. Reg. 215/95, s. 16.

Lethality Limits

**17.**(1)  Each discharger shall control the quality of each non-event process effluent monitoring stream, each event process effluent monitoring stream and each building effluent monitoring stream at the discharger’s plant to ensure that each rainbow trout acute lethality test and each Daphnia magna acute lethality test performed on any grab sample collected at a non-event process effluent sampling point, event effluent sampling point or building effluent sampling point at the plant results in mortality for no more than 50 per cent of the test organisms in 100 per cent effluent. O. Reg. 215/95, s. 17.

(2)  Subsection (1) does not apply to a rainbow trout acute lethality test or Daphnia magna acute lethality test performed on a grab sample collected at a sampling point if,

(a) the sampling point is located on an effluent stream affected by chlorination that is authorized by an environmental compliance approval and that is used for the prevention or reduction of biofouling;

(b) the acute lethality test results in mortality for more than 50 per cent of the test organisms in 100 per cent effluent and laboratory analysis indicates that this result is caused solely by the presence of chlorine; and

(c) a rainbow trout acute lethality test and a Daphnia magna acute lethality test performed on a grab sample collected at a place that is located downstream of the sampling point and before the effluent from the effluent stream is discharged from the plant both result in mortality for no more than 50 per cent of the test organisms in 100 per cent effluent. O. Reg. 174/99, s. 1; O. Reg. 272/11, s. 1.

(3)  If, pursuant to subsection (2), subsection (1) does not apply to an acute lethality test performed on a grab sample collected at a sampling point, the place referred to in clause (2) (c) shall be deemed, for the purposes of subsection (1) and section 26, to be a sampling point established under section 7. O. Reg. 174/99, s. 1.

(4)  If, pursuant to subsection (2), subsection (1) does not apply to an acute lethality test performed on a grab sample collected at a sampling point,

(a) the discharger shall take steps to ensure that future rainbow trout acute lethality tests and Daphnia magna acute lethality tests performed on grab samples collected at the sampling point will result in mortality for no more than 50 per cent of the test organisms in 100 per cent effluent; and

(b) before July 1 in each year following the calendar year in which subsection (1) did not apply, the discharger shall submit to the Director a report on what has been done and what will be done to comply with clause (a). O. Reg. 174/99, s. 1.

(5)  A report under clause (4) (b) shall include a timetable, including milestone dates and a completion date, for ensuring that future rainbow trout acute lethality tests and Daphnia magna acute lethality tests performed on grab samples collected at the sampling point will result in mortality for no more than 50 per cent of the test organisms in 100 per cent effluent. O. Reg. 174/99, s. 1.

(6)  Subsections (2) to (5) do not apply after July 1, 2002. O. Reg. 174/99, s. 1.

PART V  
MONITORING

Monitoring — General

**18.**(1)  Despite sections 19 to 27, a discharger need not collect samples from any stream at the discharger’s plant on a day on which there is no discharge from any non-event process effluent stream, event process effluent stream or building effluent stream at the plant.

(2)  Where a discharger is required by this Regulation to pick up a set of samples and analyze it for certain parameters, the discharger shall pick up a set of samples sufficient to allow all the analyses to be performed.

(3)  A discharger shall use all reasonable efforts to ensure that all analyses required by this Regulation are completed as soon as reasonably possible and that the results of those analyses are made available to the discharger as soon as reasonably possible.

(4)  Subject to subsection (5), each discharger shall pick up all sets of samples required to be picked up at the discharger’s plant under sections 19, 20, 23 and 27 between the hours of 9 a.m. and 12 noon.

(5)  If the Director is satisfied, on the basis of written submissions from a discharger, that the circumstances at the discharger’s plant are such that it would be impractical to pick up a set of samples from each sampling point established at the plant under this Regulation within the time period specified in subsection (4), the Director may give the discharger a written notice in respect of the plant, varying the time period specified in subsection (4).

(6)  Subject to subsections (7) and (8), where a discharger is required by section 19, 20, 23 or 27 to pick up a set of samples, the discharger shall pick up a set collected over the 24-hour period immediately preceding the pick up.

(7)  The 24-hour period referred to in subsection (6) may be shortened or enlarged by up to three hours to permit a discharger to take advantage of the three-hour range specified in subsection (4) or of a different three-hour period specified in a notice under subsection (5).

(8)  Where a notice has been given under subsection (5) in respect of a plant specifying a time period longer than three hours, the 24-hour period referred to in subsection (6) may be shortened or enlarged by up to that longer amount of time to permit the discharger to take advantage of the time period specified in the notice.

(9)  If the circumstances at a plant change so that the Director is satisfied that the circumstances described in subsection (5) no longer apply at the plant, the Director may revoke a notice given in respect of a plant under subsection (5) by giving a notice of revocation in writing to a discharger for the plant. O. Reg. 215/95, s. 18.

Monitoring — Non-event Process Effluent — Daily

**19.**(1)  Subject to subsections (2) to (4), each discharger shall, on each day, pick up a set of samples collected from each non-event process effluent monitoring stream at the discharger’s plant and shall analyze each set of samples for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 2 for the type of non-event process effluent stream, is daily. O. Reg. 310/17, s. 3 (1).

(2)  Subsections (3) and (4) apply only to the Lakeview Thermal Generating Station, Lambton Thermal Generating Station and Nanticoke Thermal Generating Station.

(3)  Subsection (1) does not apply to non-event process effluent streams of the types described in paragraphs 4 and 5 of subsection 1 (2) until April 13, 1998.

(4)  Beginning on April 14, 1997, each discharger shall, on each day, pick up a set of samples collected from one stream at the discharger’s plant of a type described in paragraph 4 or 5 of subsection 1 (2) and shall analyze each set of samples for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 2 for the type of non-event process effluent stream, is daily. O. Reg. 310/17, s. 3 (2).

(5)  A discharger need not meet the requirements of subsections (1) and (4) where it is impossible to do so because of sampling by a provincial officer. O. Reg. 215/95, s. 19.

Monitoring — Non-event Process Effluent — Weekly

**20.**(1)  Subject to subsections (2) to (5), each discharger shall, on one day in each week, pick up a set of samples collected from each non-event process effluent monitoring stream at the discharger’s plant and shall analyze each set of samples for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 2 for the type of non-event process effluent stream, is weekly. O. Reg. 310/17, s. 4 (1).

(2)  Despite subsection (1), a discharger need not analyze a sample collected from a stream to which subsection 16 (3) applies for a parameter listed in subsection 16 (3).

(3)  Subsections (4) and (5) apply only to the Lakeview Thermal Generating Station, Lambton Thermal Generating Station and Nanticoke Thermal Generating Station.

(4)  Subsection (1) does not apply to non-event process effluent streams of the types described in paragraphs 4 and 5 of subsection 1 (2) until April 13, 1998.

(5)  Beginning on April 14, 1997, each discharger shall, on one day in each week, pick up a set of samples collected from one stream at the discharger’s plant of a type described in paragraph 4 or 5 of subsection 1 (2) and shall analyze each set of samples for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 2 for the type of non-event process effluent stream, is weekly. O. Reg. 310/17, s. 4 (2).

(6)  There shall be an interval of at least four days between successive pick up days at the plant under subsection (1).

(7)  All samples picked up under subsections (1) and (5) in a week shall be picked up on the same day in the week. O. Reg. 215/95, s. 20.

Monitoring — Event Process Effluent — Daily and Weekly

**21.**(1)  Each discharger shall, in each 24-hour period ending at noon, pick up a set of samples collected from each event process effluent monitoring stream at the discharger’s plant and shall analyze each set of samples for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 3 for the type of event process effluent stream, is daily. O. Reg. 310/17, s. 5 (1).

(2)  A set of samples collected at a sampling point under subsection (1) in a 24-hour period ending at noon shall be collected,

(a) throughout the entire 24-hour period, where effluent flows past the sampling point throughout the entire 24-hour period; and

(b) throughout any portions of the 24-hour period during which effluent flows past the sampling point, where effluent does not flow past the sampling point throughout the entire 24-hour period.

(3)  Each discharger shall pick up each set of samples collected under subsection (1) during a 24-hour period by the end of that period.

(4)  A discharger need not meet the requirements of subsections (1) to (3) where it is impossible to do so because of sampling by a provincial officer.

(5)  Subsections (1) to (3) do not apply in relation to,

(a) a sampling point on an event process effluent monitoring stream of a type described in paragraph 1 of subsection 1 (3) at the Lambton Thermal Generating Station; or

(b) a sampling point on an event process effluent monitoring stream of a type described in paragraph 2 of subsection 1 (3).

(6)  Each discharger shall, during each discharge at the discharger’s plant of effluent from a radioactive liquid waste management system tank at the discharger’s plant into a stream referred to in clause (5) (b), collect a grab sample from the sampling point on the stream.

(7)  Instead of collecting a grab sample from a sampling point during a discharge as required by subsection (6), a discharger may collect a grab sample from the tank immediately before the discharge.

(8)  A discharger shall combine all grab samples collected during each 24-hour period ending at noon at the discharger’s plant under subsections (6) and (7), in proportion to the volumes of the discharges in respect of which the grab samples were collected, and shall immediately pick up the combined sample.

(9)  For the purposes of subsections (11), (12), (14) and (19), where only one grab sample is collected at a discharger’s plant under subsections (6) and (7) during a 24-hour period ending at noon, the single grab sample shall be deemed to be a combined sample prepared under subsection (8).

(10)  A discharger shall pick up a single grab sample to which subsection (9) applies by noon of the 24-hour period.

(11)  Each discharger shall analyze each combined sample prepared under subsection (8) for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 3 for the type of event process effluent stream described in paragraph 2 of subsection 1 (3), is daily. O. Reg. 310/17, s. 5 (2).

(12)  Once in each week, each discharger shall analyze one combined sample prepared under subsection (8) for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 3 for the type of event process effluent stream described in paragraph 2 of subsection 1 (3), is weekly. O. Reg. 310/17, s. 5 (3).

(13)  Subsection (12) does not apply to require analysis for the parameter oil and grease.

(14)  There shall be an interval of at least four full periods of 24 hours ending at noon between pick up times at the plant of the combined samples used for successive weekly analyses under subsection (12).

(15)  Once in each week, throughout one 24-hour period ending at noon, each discharger shall collect a duplicate sample for each grab sample collected under subsections (6) and (7), shall combine the duplicate grab samples in equal volumes and shall immediately pick up the combined sample.

(16)  For the purposes of subsection (15), a discharger shall not choose a 24-hour period during which only one grab sample is collected under subsections (6) and (7) at the discharger’s plant.

(17)  Each discharger shall analyze each combined sample prepared under subsection (15) for the parameter oil and grease.

(18)  There shall be an interval of at least four full periods of 24 hours ending at noon between pick up times at the plant of the combined samples used for successive analyses under subsection (17).

(19)  All combined samples picked up under subsection (15) in a week and all combined samples picked up in the week to meet the analysis requirements of subsection (12) shall be picked up on the same day in the week.

(20)  Each discharger for the Lambton Thermal Generating Station shall, on one day in each week, pick up a grab sample collected from the event process effluent monitoring stream of the type described in paragraph 1 of subsection 1 (3) at the plant and shall analyze each grab sample for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 3 for the type of event process effluent stream described in paragraph 1 of subsection 1 (3), is weekly. O. Reg. 215/95, s. 21; O. Reg. 310/17, s. 5 (4).

Monitoring — Non-event Process Effluent — Quality Control

**22.**(1)  On one day in each year after 1995, on a day on which samples are picked up at the plant under subsection 20 (1), each discharger shall collect and pick up a duplicate sample for each sample picked up on that day under subsection 20 (1) at one non-event process effluent sampling point at the discharger’s plant and shall analyze each duplicate sample for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 2 for the type of non-event process effluent stream, is daily. O. Reg. 215/95, s. 22 (1); O. Reg. 310/17, s. 6 (1).

(2)  On one day in each year after 1995, on the day on which samples are picked up at the plant under subsection (1), each discharger shall collect and pick up a duplicate sample for each sample picked up on that day under subsection 20 (1) at one non-event process effluent sampling point at the discharger’s plant and shall analyze each duplicate sample for the parameters for which the frequency of monitoring, as set out in Column 3 of the Table for the discharger’s plant in Schedule 2 for the type of non-event process effluent stream, is weekly. O. Reg. 215/95, s. 22 (2); O. Reg. 310/17, s. 6 (2).

(3)  In each year, a discharger shall use the same non-event process effluent sampling point for the purposes of subsections (1) and (2). O. Reg. 215/95, s. 22 (3).

(4)  Each discharger shall prepare a travelling blank and travelling spiked blank sample for each sample for which a duplicate sample is picked up at the plant under subsection (1) and shall analyze the travelling blank and travelling spiked blank samples in accordance with the directions set out in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time. O. Reg. 240/07, s. 3.

(5)  There shall be an interval of at least six months between successive pick up days at the plant under subsection (1). O. Reg. 215/95, s. 22 (5).

Monitoring — Non-event and Event Process Effluent — pH Measurement

**23.**(1)  Each discharger shall, on each day during the time period applicable to the plant under subsection 18 (4) or (5), collect a grab sample from each non-event process effluent monitoring stream at the discharger’s plant and shall analyze each sample for the parameter pH.

(2)  Each discharger shall, within each 24-hour period beginning with the collection of the first grab sample at the plant under subsection (1) on each day, collect two more grab samples from each non-event process effluent monitoring stream at the discharger’s plant and shall analyze each sample for the parameter pH.

(3)  There shall be an interval of at least four hours between each of the three collections at a stream under subsections (1) and (2) in each 24-hour period.

(4)  Each grab sample collected under subsections (1) and (2) shall be picked up within 24 hours of when it was collected.

(5)  Each grab sample picked up under subsection (4) shall be analyzed within 24 hours of when it was picked up.

(6)  Instead of complying with subsections (1) to (4) with respect to a stream, a discharger may use an on-line analyzer at the sampling point on the stream and analyze the effluent at the sampling point for the parameter pH once in each day during the time period applicable to the plant under subsection 18 (4) or (5), and two more times in each 24-hour period beginning with the first analysis at the plant under this subsection in each day.

(7)  There shall be an interval of at least four hours between each of the three analyses at a sampling point under subsection (6) in each 24-hour period.

(8)  Each discharger shall, in each 24-hour period ending at noon, collect a grab sample from each event process effluent monitoring stream at the discharger’s plant and shall analyze each sample for the parameter pH.

(9)  For the purposes of subsection (8), in relation to a stream of the type described in paragraph 2 of subsection 1 (3), a discharger may collect a grab sample from a radioactive liquid waste management system tank immediately before a discharge into the stream instead of collecting a grab sample from the sampling point on the stream. O. Reg. 215/95, s. 23.

(10)  A discharger for the Lambton Thermal Generating Station need not comply with subsection (8).

(11)  Each discharger for the Lambton Thermal Generating Station may, on one day in each week, on a day on which samples are picked up at the plant under subsection 21 (20), collect a grab sample from each event process effluent monitoring stream at the discharger’s plant and shall analyze each sample for the parameter pH. O. Reg. 525/95, s. 1.

Monitoring — Acute Lethality Testing — Rainbow Trout

**24.**(1)  Where a discharger is required by this section to perform a rainbow trout acute lethality test, the discharger shall perform the test according to the procedures described in the Environment Canada publication entitled “Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout”, as amended from time to time. O. Reg. 240/07, s. 4.

(2)  Each rainbow trout acute lethality test required by this section shall be carried out as a single concentration test using 100 per cent effluent. O. Reg. 215/95, s. 24 (2).

(3)  On one day in each month, on a day on which samples are picked up at the plant under subsection 20 (1), each discharger shall collect and immediately pick up a grab sample at each non-event process effluent sampling point at the discharger’s plant and shall perform a rainbow trout acute lethality test on each sample. O. Reg. 215/95, s. 24 (3).

(4)  There shall be an interval of at least 15 days between successive pick up days at the plant under subsection (3). O. Reg. 215/95, s. 24 (4).

(5)  All samples picked up under subsection (3) in a month shall be picked up on the same day in the month. O. Reg. 215/95, s. 24 (5).

(6)  Where a discharger has performed tests under subsection (3) for 12 consecutive months on samples collected from the same sampling point and the mortality of the rainbow trout in each test did not exceed 50 per cent, the discharger is relieved of the obligations under subsection (3) relating to the sampling point and shall instead collect and immediately pick up a grab sample at the sampling point on one day in each quarter and perform a rainbow trout acute lethality test on each sample. O. Reg. 215/95, s. 24 (6).

(7)  Samples picked up at a plant under subsection (6) shall be picked up on a day on which samples are picked up at the plant under subsection (3). O. Reg. 215/95, s. 24 (7).

(8)  If no samples are being picked up at a plant under subsection (3) during a quarter, samples picked up at the plant during the quarter under subsection (6) shall be picked up on a day on which samples are picked up at the plant under subsection 20 (1). O. Reg. 215/95, s. 24 (8).

(9)  There shall be an interval of at least 45 days between successive pick up days at the plant under subsection (6). O. Reg. 215/95, s. 24 (9).

(10)  All samples picked up under subsection (6) in a quarter shall be picked up on the same day in the quarter. O. Reg. 215/95, s. 24 (10).

(11)  If a rainbow trout acute lethality test performed under subsection (6) on any sample from a sampling point results in mortality of more than 50 per cent of the test rainbow trout, subsections (6) to (10) cease to apply in respect to samples from that sampling point, and a discharger shall instead comply with the requirements of subsection (3) relating to the sampling point, until the tests performed under subsection (3) on all samples collected from the sampling point for a further 12 consecutive months result in mortality for no more than 50 per cent of the rainbow trout for each test. O. Reg. 215/95, s. 24 (11).

(12)  A discharger shall notify the Director in writing of any change in the frequency of acute lethality testing under this Regulation at the discharger’s plant, within 30 days after the day on which the change begins. O. Reg. 215/95, s. 24 (12).

(13), (14)  Revoked: O. Reg. 215/95, s. 24 (15).

(15)  Spent:O. Reg. 215/95, s. 24 (15).

(16)  Subsections (2) to (15) apply with necessary modifications to each event process effluent sampling point, other than a sampling point on an event process effluent stream of the type described in paragraph 2 of subsection 1 (3), and, for the purpose,

(a) the reference in subsection (3) to each non-event process effluent sampling point shall be deemed to be a reference to each event process effluent sampling point, other than a sampling point on an event process effluent stream of the type described in paragraph 2 of subsection 1 (3); and

(b) the reference in subsections (3) and (8) to subsection 20 (1) shall be deemed to be a reference to subsection 21 (1). O. Reg. 215/95, s. 24 (16).

(17)  Subsections (2) to (15) apply with necessary modifications to the sampling point on the event process effluent stream of the type described in paragraph 2 of subsection 1 (3) and, for the purpose,

(a) the reference in subsection (3) to each non-event process effluent sampling point shall be deemed to be a reference to the sampling point on the event process effluent stream of the type described in paragraph 2 of subsection 1 (3); and

(b) the reference in subsection (3) to subsection 20 (1) shall be deemed to be a reference to subsection 21 (6). O. Reg. 215/95, s. 24 (17).

(18)  Instead of collecting a grab sample from the sampling point on the stream as required by subsection (17), a discharger may collect a grab sample from a radioactive liquid waste management system tank at the plant immediately before a discharge into the stream. O. Reg. 215/95, s. 24 (18).

(19)  For the purposes of this section, a discharger at the Bruce Heavy Water Plant may, instead of using a sampling point on a non-event process effluent monitoring stream of the type described in paragraph 7 of subsection 1 (2) or on an event process effluent monitoring stream of the type described in paragraph 5 of subsection 1 (3), use an alternate sampling point located downstream of the sampling point but before the point of discharge of the stream to surface water. O. Reg. 215/95, s. 24 (19).

(20)  On one day in each quarter, each discharger shall collect and immediately pick up a grab sample at each building effluent sampling point at the discharger’s plant and shall perform a rainbow trout acute lethality test on each sample. O. Reg. 215/95, s. 24 (20).

(21)  Each sample collected under subsection (20) from a sampling point shall be collected on a day on which a sample is collected from that sampling point under subsection 27 (1). O. Reg. 215/95, s. 24 (21).

(22)  Subsections (2), (13), (14) and (15) apply with necessary modifications to monitoring under subsection (20) and, for the purpose, the reference in subsections (13) and (14) to subsection (3) shall be deemed to be a reference to subsection (20). O. Reg. 215/95, s. 24 (22).

Monitoring — Acute Lethality Testing — *Daphnia magna*

**25.**(1)  Where a discharger is required by this section to perform a Daphnia magna acute lethality test, the discharger shall perform the test according to the procedures described in the Environment Canada publication entitled “Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia magna”, as amended from time to time. O. Reg. 240/07, s. 5.

(2)  Subsections 24 (2) to (22) apply with necessary modifications to Daphnia magna acute lethality tests and, for the purpose, a reference to rainbow trout shall be deemed to be a reference to Daphnia magna. O. Reg. 215/95, s. 25 (2).

(3)  Each discharger shall pick up each set of samples required to be collected from a sampling point at the discharger’s plant under this section on a day on which the discharger collects a sample from the sampling point under section 24, to the extent possible having regard to the frequency of monitoring required at the sampling point under this section and section 24. O. Reg. 215/95, s. 25 (3).

Monitoring — Chronic Toxicity Testing — Fathead Minnow and *Ceriodaphnia dubia*

**26.**(1)  Where a discharger is required to perform a seven-day fathead minnow growth inhibition test, the discharger shall perform the test according to the procedure described in the Environment Canada publication entitled “Biological Test Method: Test of Larval Growth and Survival Using Fathead Minnows”, as amended from time to time. O. Reg. 240/07, s. 6.

(2)  Where a discharger is required to perform a seven-day Ceriodaphnia dubia reproduction inhibition and survivability test, the discharger shall perform the test according to the procedure described in the Environment Canada publication entitled “Biological Test Method: Test of Reproduction and Survival Using the Cladoceran Ceriodaphnia dubia”, as amended from time to time. O. Reg. 240/07, s. 6.

(3)  On one day in each semi-annual period, on a day on which samples are picked up at the plant under subsection 20 (1), each discharger shall collect and immediately pick up a grab sample from each non-event process effluent sampling point at the discharger’s plant and shall perform a seven-day fathead minnow growth inhibition test and a seven-day Ceriodaphnia dubia reproduction inhibition and survivability test on each sample. O. Reg. 215/95, s. 26 (3).

(4)  On one day in each semi-annual period, on a day on which samples are picked up at the plant for analysis under subsection 21 (12), each discharger shall,

(a) collect and immediately pick up a grab sample from the event process effluent stream of the type described in paragraph 2 of subsection 1 (3) at the discharger’s plant; and

(b) perform a seven-day fathead minnow growth inhibition test and a seven-day Ceriodaphnia dubia reproduction inhibition and survivability test on the sample. O. Reg. 215/95, s. 26 (4).

(5)  Instead of collecting a grab sample from the sampling point on the stream as required by subsection (4), a discharger may collect a grab sample from a radioactive liquid waste management system tank at the plant immediately before a discharge into the stream. O. Reg. 215/95, s. 26 (5).

(6)  There shall be an interval of at least 90 days between successive pick up days at the plant under subsections (3) and (4). O. Reg. 215/95, s. 26 (6).

(7)  All samples picked up under subsections (3) and (4) in a semi-annual period shall be picked up on the same day in the semi-annual period. O. Reg. 215/95, s. 26 (7).

(8)  A discharger need not collect a sample from a sampling point in accordance with subsections (3) and (4) until 12 consecutive monthly rainbow trout acute lethality tests and 12 consecutive monthly Daphnia magna acute lethality tests performed on samples collected at the sampling point at a discharger’s plant result in mortality for no more than 50 per cent of the test organisms in 100 per cent effluent. O. Reg. 215/95, s. 26 (8).

Monitoring — Building Effluent — Quarterly

**27.**(1)  Each discharger shall, on one day in each quarter, pick up a grab sample at each building effluent sampling point at the discharger’s plant and shall analyze each sample for the following parameters:

1. Total Suspended Solids (TSS), referred to as Analytical Test Group 8 in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time.

2. Oil and grease, referred to in Analytical Test Group 25 in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time. O. Reg. 215/95, s. 27 (1); O. Reg. 240/07, s. 7.

(2)  There shall be an interval of at least 45 days between successive pick up days at the plant under subsection (1). O. Reg. 215/95, s. 27 (2).

PART VI  
EFFLUENT VOLUME

Flow Measurement

**28.**(1)  For the purposes of this section, a volume of effluent for a non-event process effluent stream for a day is the volume that flowed past the sampling point established under Part II on the stream during the 24-hour period preceding the pick up of the first sample picked up from the stream for the day.

(2)  For the purposes of this section, a volume of effluent for a building effluent stream for a day is the volume that flowed past the sampling point established under Part II on the stream during a 24-hour period beginning at any time between 9 a.m. and noon on that day.

(3)  For the purposes of this section, a 24-hour volume of effluent for an event process effluent stream for a 24-hour period ending at noon is the volume that flowed past the sampling point established under Part II on the stream during the 24-hour period.

(4)  Each discharger shall determine in cubic metres a daily volume of effluent for each non-event process effluent stream at the discharger’s plant for each day on which a sample is collected under this Regulation from the stream, by integration of continuous flowrate measurements.

(5)  Despite subsection (4), where a non-event process effluent stream discharges on an intermittent basis, the daily volumes for the stream may be determined either by integration of continuous flowrate measurements or by the summation of individual batch volume measurements.

(6)  Each discharger shall use flow measurement methods that allow the daily volumes for non-event process effluent streams to be determined to an accuracy of within plus or minus 15 per cent.

(7)  Each discharger shall determine in cubic metres a 24-hour volume of effluent for each event process effluent stream at the discharger’s plant for each 24-hour period ending at noon in which a sample is collected under this Regulation from the stream or from a tank that discharges into the stream.

(8)  For the purposes of subsection (7), a discharger need not use continuous flowrate measurements.

(9)  Each discharger shall use flow measurement methods that allow the daily volumes for event process effluent streams to be determined to an accuracy of within plus or minus 15 per cent.

(10)  Each discharger shall determine in cubic metres a daily volume of effluent for each building effluent monitoring stream at the discharger’s plant for each day.

(11)  Subject to subsection (12), each discharger shall use flow measurement methods that allow the daily volumes for building effluent streams determined under subsection (10) to be determined to an accuracy of within plus or minus 20 per cent.

(12)  For the purposes of subsection (10), in relation to a building effluent stream that originates in the power house at the plant, a discharger for the Lakeview Thermal Generating Station, Lambton Thermal Generating Station, Lennox Thermal Generating Station or Nanticoke Thermal Generating Station may determine the daily volume for the stream for a day as the volume of low pressure service water that served the boiler unit for the stream during a 24-hour period beginning at any time between 9 a.m. and noon on that day.

(13)  Each discharger shall use methods that allow the daily volumes of low pressure service water determined under subsection (12) to be determined to an accuracy of within plus or minus 20 per cent.

(14)  Each discharger shall, no later than the day that this section comes into force, determine by calibration or confirm by means of a certified report of a registered professional engineer of the Province of Ontario that,

(a) each flow measurement method used under subsections (4) and (5) meets the accuracy requirements of subsection (6);

(b) each flow measurement method used under subsections (7) and (8) meets the accuracy requirements of subsection (9);

(c) each flow measurement method used under subsection (10) meets the accuracy requirements of subsection (11); and

(d) each flow measurement method used under subsection (12) meets the accuracy requirements of subsection (13).

(15)  Where a discharger uses a new flow measurement method or alters an existing flow measurement method, the discharger shall determine by calibration or confirm by means of a certified report of a registered professional engineer of the Province of Ontario that each new or altered flow measurement method meets the accuracy requirements of subsection (6), (9), (11) or (13), as the case may be, within two weeks after the day on which the new or altered method or system is used.

(16)  Each discharger shall develop and implement a maintenance schedule and a calibration schedule for each flow measurement system installed at the discharger’s plant and shall maintain each flow measurement system according to good operating practices.

(17)  Each discharger shall use reasonable efforts to set up each flow measurement system used for the purposes of this section in a way that permits inspection by a provincial officer. O. Reg. 215/95, s. 28.

Calculation of Stream and Plant Volumes

**29.**(1)  Each discharger shall calculate, in cubic metres, a daily non-event process effluent plant volume for each day.

(2)  For the purposes of subsection (1), a non-event process effluent plant volume for a day is the sum of the daily non-event process effluent volumes for each non-event process effluent monitoring stream determined under section 28 for the day.

(3)  Each discharger shall calculate, in cubic metres, a monthly average non-event process effluent plant volume for each month by taking the arithmetic mean of the daily non-event process effluent plant volumes for each non-event process effluent monitoring stream calculated under subsection (1) for the month.

(4)  Each discharger shall calculate, in cubic metres, a monthly average volume for each non-event process effluent stream at the discharger’s plant for each month, by taking the arithmetic mean of the daily volumes determined under section 28 for the stream for the month.

(5)  Each discharger shall calculate, in cubic metres, a monthly average volume for each event process effluent stream of the type described in paragraph 2 of subsection 1 (3) at the discharger’s plant for each month by taking the arithmetic mean of the 24-hour volumes determined under section 28 for each 24-hour period ending at noon during which a sample is collected from the stream, or from a tank that discharges into the stream, in the month.

(6)  Each discharger shall calculate, in cubic metres, a monthly average volume for each building effluent stream at the discharger’s plant for each month, by taking the arithmetic mean of the daily volumes determined under section 28 for the stream for the month. O. Reg. 215/95, s. 29.

PART VII  
STORM WATER CONTROL STUDY

Storm Water Control Study

**30.**(1)  Each discharger shall complete a storm water control study in respect of the discharger’s plant, in accordance with the requirements of the Ministry of Environment and Energy publication entitled “Protocol for Conducting a Storm Water Control Study” dated August, 1994. O. Reg. 215/95, s. 30 (1).

(2)  Despite subsection (1), instead of analysing storm water samples for the parameters referred to in the protocol cited in subsection (1), each discharger shall analyze storm water samples for the following parameters:

1. Hydrogen ion (pH), referred to as Analytical Test Group 3 in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time.

2. Total Suspended Solids (TSS), referred to as Analytical Test Group 8 in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time.

3. Iron, referred to in Analytical Test Group 9a in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time.

4. Oil and grease, referred to in Analytical Test Group 25 in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time.

5. Polychlorinated Biphenyls, referred to as Analytical Test Group 27 in the Ministry of the Environment publication entitled “Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater”, as amended from time to time. O. Reg. 215/95, s. 30 (2); O. Reg. 240/07, s. 8.

(3)  A discharger need not comply with subsection (1) in respect of the discharger’s plant if,

(a) the plant meets the exemption criteria set out in the Ministry of Environment and Energy publication entitled “Protocol for Conducting a Storm Water Control Study” dated August, 1994; and

(b) the discharger notifies the Director in writing, by April 12, 1996, that the plant meets the exemption criteria referred to in clause (a). O. Reg. 215/95, s. 30 (3); O. Reg. 240/07, s. 8.

(4)  Subject to subsection (5), a discharger shall complete the storm water control study in respect of the discharger’s plant by April 14, 1997. O. Reg. 215/95, s. 30 (4).

(5)  A discharger may postpone completion of the storm water control study in respect of the discharger’s plant until April 12, 1999 if,

(a) in order to meet the requirements of Part IV, the discharger plans to make process changes, install wastewater treatment facilities, implement management practices, or make any other changes at the plant that would likely alter the quantity or quality of storm water discharged from the plant; and

(b) the discharger notifies the Director in writing, by April 14, 1997, of the plans referred to in clause (a). O. Reg. 215/95, s. 30 (5).

(6)  Each discharger shall ensure that a copy of each study completed under this section is available to Ministry staff at the discharger’s plant on request during the plant’s normal office hours. O. Reg. 215/95, s. 30 (6).

PART VIII  
RECORDS AND REPORTS

Record Keeping

**31.**(1)  Each discharger shall keep records, in an electronic format acceptable to the Director, of all analytical results obtained under sections 19, 20, 21, 23 and 27, all calculations performed under sections 11, 12, 13, 14 and 15 and all determinations and calculations made or performed under sections 28 and 29.

(2)  Each discharger shall keep records of all sampling and analytical procedures used in meeting the requirements of section 6, including, for each sample, the date, the time of pick up, the sampling procedures used and any incidents likely to affect the analytical results.

(3)  Each discharger shall keep records of the results of all monitoring performed under sections 22 and 24 to 26.

(4)  Each discharger shall keep records of all maintenance and calibration procedures performed under section 28.

(5)  Each discharger shall keep records of all problems or malfunctions, including those related to sampling, analysis, acute lethality testing, chronic toxicity testing or flow measurement, that result or are likely to result in a failure to comply with a requirement of this Regulation, stating the date, duration and cause of each malfunction and including a description of any remedial action taken.

(6)  Each discharger shall keep records of any incident in which effluent that would ordinarily flow past a non-event process effluent sampling point or an event process effluent sampling point is discharged from the discharger’s plant without flowing past that sampling point, stating the date, duration, cause and nature of each incident.

(7)  Each discharger shall keep records of all process changes and redirections of or changes in the character of effluent streams that affect the quality of effluent at any sampling point established under this Regulation at the discharger’s plant.

(8)  Each discharger shall keep records of the location of each sampling point established at the discharger’s plant under Part II and subsection 24 (19).

(9)  Each discharger shall make each record required by this section as soon as reasonably possible and shall keep each such record for a period of three years.

(10)  Each discharger shall ensure that all records kept under this section are available to Ministry staff at the discharger’s plant on request during the plant’s normal office hours. O. Reg. 215/95, s. 31.

Reports Available to the Public

**32.**(1)  On or before June 1 in each year, each discharger shall prepare a report relating to the previous calendar year and including,

(a) a summary of concentrations determined under sections 11 and 12;

(b) a summary of plant loadings calculated under sections 13, 14 and 15;

(c) a summary of the results of monitoring performed under sections 19, 20, 21 and 23 to 27;

(d) a summary of volumes determined under subsection 28 (7) and calculations performed under subsections 29 (4), (5) and (6);

(e) a summary of the concentrations or other results that exceeded a limit prescribed by section 16 or 17; and

(f) a summary of the incidents in which effluent that would ordinarily flow past a non-event process effluent sampling or an event process effluent sampling point is discharged from the discharger’s plant without flowing past that sampling point.

(2)  Each discharger shall ensure that each report prepared under subsection (1) is available to any person at the discharger’s plant on request during the plant’s normal office hours.

(3)  Each discharger shall provide the Director, upon request, with a copy of any report that the discharger has prepared under subsection (1). O. Reg. 215/95, s. 32.

Reports to the Director — General

**33.**(1)  Each discharger shall notify the Director in writing of any change of name or ownership of the discharger’s plant occurring after April 13, 1995, within 30 days after the end of the month in which the change occurs.

(2)  Each discharger shall notify the Director in writing of any process change or redirection of or change in the character of an effluent stream that affects the quality of effluent at any sampling point established under this Regulation at the discharger’s plant, within 30 days of the change or redirection.

(3)  A discharger need not comply with subsection (2) where the effect of the change or redirection on effluent quality is of less than one week’s duration. O. Reg. 215/95, s. 33.

Reports to the Director on Compliance with Section 5 and Part IV

**34.**(1)  Each discharger shall report any incident in which effluent that would ordinarily flow past a non-event process effluent sampling point or an event process effluent sampling point is discharged from the discharger’s plant without flowing past that sampling point.

(2)  Each discharger shall report any concentration or other result that exceeds a limit prescribed by section 16 or 17.

(3)  A report required under subsection (1) or (2) shall be given orally, as soon as reasonably possible, and in writing, as soon as reasonably possible. O. Reg. 215/95, s. 34.

Quarterly Reports to the Director

**35.**(1)  No later than 45 days after the end of each quarter, each discharger shall submit a report to the Director containing information relating to the discharger’s plant throughout the quarter as required by subsections (3) to (8).

(2)  A report under this section shall be submitted both in an electronic format acceptable to the Director and in hard copy generated from the electronic format and signed by the discharger.

(3)  A report under this section shall include all information included in a report given under section 34 during the quarter.

(4)  Each discharger shall report,

(a) for each month in the quarter, the monthly average plant loadings and the highest and lowest daily plant loadings calculated for each limited parameter under section 13;

(b) each 24-hour event process effluent stream loading calculated for each limited parameter under subsection 14 (1) that is based on analytical results obtained from a sample collected during the quarter;

(c) each 24-hour event process effluent plant loading calculated for each limited parameter under subsection 14 (3) that is based on 24-hour event process effluent stream loadings required to be reported under clause (b) in respect of the quarter;

(d) for each month in the quarter, each monthly average event process effluent stream loading calculated for each limited parameter under subsection 14 (6); and

(e) each quarterly building effluent plant loading calculated under section 15 for each building parameter for the quarter.

(5)  Each discharger shall report, for each month in the quarter, the monthly average concentrations calculated under sections 11 and 12 and the highest and lowest analytical results obtained under sections 19, 20 and 21 for each limited parameter in each non-event process effluent monitoring stream and event process effluent monitoring stream at the discharger’s plant.

(6)  Each discharger shall report, for each month in the quarter,

(a) each 24-hour volume determined for a stream, other than a stream described in paragraph 2 of subsection 1 (3), under subsection 28 (7) for a 24-hour period ending at noon during which a sample is collected from the stream in the month;

(b) the highest and lowest 24-hour volumes determined under subsection 28 (7) for the stream described in paragraph 2 of subsection 1 (3) of all the 24-hour volumes determined for the stream under subsection 28 (7) for 24-hour periods ending at noon during which a sample is collected from the stream in the month;

(c) the monthly average non-event process effluent plant volume and the highest and lowest daily non-event process effluent plant volumes as calculated under section 29; and

(d) the monthly average volume for each event process effluent stream of the type described in paragraph 2 of subsection 1 (3) at the discharger’s plant, as calculated under section 29.

(7)  Each discharger shall report, for each month in the quarter, the monthly average volume for each building effluent monitoring stream at the discharger’s plant, as calculated under section 29.

(8)  Each discharger shall report, for each month in the quarter, the highest and lowest pH results obtained under section 23 for each non-event process effluent monitoring stream and event process effluent monitoring stream at the discharger’s plant. O. Reg. 215/95, s. 35.

(9)  Each discharger shall report, for each day in each month in the quarter, the number of days on which effluent is discharged from,

(a) each non-event process effluent monitoring stream at the discharger’s plant;

(b) each event process effluent monitoring stream at the discharger’s plant; and

(c) each building effluent monitoring stream at the discharger’s plant. O. Reg. 525/95, s. 2.

Reports to the Director on Chronic Toxicity Testing

**36.**(1)  Each discharger shall report to the Director the results of all monitoring performed under section 26, together with the date on which each sample was picked up, no later than 60 days after the end of each semi-annual period in which the monitoring was performed.

(2)  A report under subsection (1) shall include a plot of percentage reduction in growth or reproduction against the logarithm of test concentration and shall include a calculation of the concentration at which a 25 per cent reduction in growth or reproduction would occur. O. Reg. 215/95, s. 36.

**37.**  Omitted (revokes other Regulations). O. Reg. 215/95, s. 37.

**38.**  Omitted (revokes other Regulations). O. Reg. 215/95, s. 38.

**39.**  Omitted (provides for coming into force of provisions of this Regulation). O. Reg. 215/95, s. 39.

Schedule 1  
LIST OF REGULATED PLANTS

|  |  |
| --- | --- |
| Plant Name | Location |
| Atikokan TGS | Atikokan |
| Bruce Bulk Steam System | Tiverton |
| Bruce Heavy Water Plant | Tiverton |
| Bruce NGS - A | Tiverton |
| Bruce NGS - B | Tiverton |
| Bruce Nuclear Power Development | Tiverton |
| Darlington NGS | Darlington |
| J. C. Keith TGS | Windsor |
| Lakeview TGS | Mississauga |
| Lambton TGS | Courtright |
| Lennox TGS | S. Fredericksburgh |
| Nanticoke TGS | Nanticoke |
| Pickering NGS - A and B | Pickering |
| R. L. Hearn TGS | Toronto |
| Thunder Bay TGS | Thunder Bay |

Explanatory Notes:

TGS = Thermal Generating Station

NGS = Nuclear Generating Station

O. Reg. 174/99, s. 2.

Schedule 2  
Types Of Non-Event Process Effluent Streams, Limits, Monitoring Frequency

Table 1  
PLANT: Atikokan TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 3. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 4. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 5. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 6. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |
| 7. | 25 | Oil and grease | OWSE | Weekly | 29.0 | 13.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

OWSE = a stream of the type described in paragraph 6 of subsection 1 (2)

Table 2  
Plant: Bruce Bulk Steam System

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 2. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 3. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |

Explanatory Note:

Types of Non-Event Process Effluent Streams in Column 2:

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

Table 3  
PLANT: Bruce Heavy Water Plant

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 15 | Sulphide | EUSPE | Daily | 0.8 | Not applicable |

Explanatory Note:

Types of Non-Event Process Effluent Streams in Column 2:

EUSPE = a stream of the type described in paragraph 7 of subsection 1 (2)

Table 4  
PLANT: Bruce NGS — A

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 2. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 3. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |

Explanatory Note:

Types of Non-Event Process Effluent Streams in Column 2:

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

Table 5  
PLANT: Bruce NGS — B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 2. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 3. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |

Explanatory Note:

Types of Non-Event Process Effluent Streams in Column 2:

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

Table 6  
PLANT: Bruce Nuclear Power Development

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 1a | Biochemical Oxygen Demand (5 Day) | ISTPE | Weekly | Not applicable | 25.0 |
| 2. | 4a | Ammonia plus Ammonium | ISTPE | Weekly | Not applicable | 7.0 |
| 3. | 6 | Total Phosphorus | ISTPE | Weekly | Not applicable | 1.0 |
| 4. | 8 | Total Suspended Solids | ISTPE | Daily | 44.0 | 18.0 |
| 5. | 25 | Oil and grease | ISTPE | Weekly | 38.0 | 12.0 |

Explanatory Note:

Types of Non-Event Process Effluent Streams in Column 2:

ISTPE = a stream of the type described in paragraph 2 of subsection 1 (2)

Table 7  
PLANT: Darlington NGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 1a | Biochemical Oxygen Demand (5 Day) | ISTPE | Weekly | Not applicable | 25.0 |
| 2. | 4a | Ammonia plus Ammonium | ISTPE | Weekly | Not applicable | 7.0 |
| 3. | 6 | Total Phosphorus | ISTPE | Weekly | Not applicable | 4.60 |
| 4. | 8 | Total Suspended Solids | ISTPE | Daily | 44.0 | 18.0 |
| 5. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 6. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 7. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |
| 8. | 25 | Oil and grease | ISTPE | Weekly | 38.0 | 12.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

ISTPE = a stream of the type described in paragraph 2 of subsection 1 (2)

Table 8  
Plant: J.C. Keith TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 3. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 4. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 5. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 6. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |
| 7. | 25 | Oil and grease | OWSE | Weekly | 29.0 | 13.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

OWSE = a stream of the type described in paragraph 6 of subsection 1 (2)

Table 9  
PLANT: Lakeview TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | BSWE | Daily | 70.0 | 25.0 |
| 3. | 8 | Total Suspended Solids | AQWE | Daily | 70.0 | 25.0 |
| 4. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 5. | 9 | Aluminum | BSWE | Weekly | 13.0 | 4.50 |
| 6. | 9 | Aluminum | AQWE | Weekly | 13.0 | 4.50 |
| 7. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 8. | 9a | Iron | BSWE | Weekly | 2.50 | 1.0 |
| 9. | 9a | Iron | AQWE | Weekly | 2.50 | 1.0 |
| 10. | 25 | Oil and grease | OWSE | Weekly | 29.0 | 13.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

BSWE = a stream of the type described in paragraph 5 of subsection 1 (2)

AQWE = a stream of the type described in paragraph 4 of subsection 1 (2)

OWSE = a stream of the type described in paragraph 6 of subsection 1 (2)

Table 10  
PLANT: Lambton TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | BSWE | Daily | 70.0 | 25.0 |
| 3. | 8 | Total Suspended Solids | AQWE | Daily | 70.0 | 25.0 |
| 4. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 5. | 9 | Aluminum | BSWE | Weekly | 13.0 | 4.50 |
| 6. | 9 | Aluminum | AQWE | Weekly | 13.0 | 4.50 |
| 7. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 8. | 9a | Iron | BSWE | Weekly | 2.50 | 1.0 |
| 9. | 9a | Iron | AQWE | Weekly | 2.50 | 1.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

BSWE = a stream of the type described in paragraph 5 of subsection 1 (2)

AQWE = a stream of the type described in paragraph 4 of subsection 1 (2)

Table 11  
PLANT: Lennox TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 2. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 3. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |
| 4. | 25 | Oil and grease | OWSE | Weekly | 29.0 | 13.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

OWSE = a stream of the type described in paragraph 6 of subsection 1 (2)

Table 12  
PLANT: Nanticoke TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | BSWE | Daily | 70.0 | 25.0 |
| 3. | 8 | Total Suspended Solids | AQWE | Daily | 70.0 | 25.0 |
| 4. | 8 | Total Suspended Solids | ATLE | Daily | 70.0 | 25.0 |
| 5. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 6. | 9 | Aluminum | BSWE | Weekly | 13.0 | 4.50 |
| 7. | 9 | Aluminum | AQWE | Weekly | 13.0 | 4.50 |
| 8. | 9 | Aluminum | ATLE | Weekly | 13.0 | 4.50 |
| 9. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 10. | 9a | Iron | BSWE | Weekly | 2.50 | 1.0 |
| 11. | 9a | Iron | AQWE | Weekly | 2.50 | 1.0 |
| 12. | 9a | Iron | ATLE | Weekly | 2.50 | 1.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

BSWE = a stream of the type described in paragraph 5 of subsection 1 (2)

AQWE = a stream of the type described in paragraph 4 of subsection 1 (2)

ATLE = a stream of the type described in paragraph 8 of subsection 1 (2)

Table 13  
PLANT: Pickering NGS — A and B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 2. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 3. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |

Explanatory Note:

Types of Non-Event Process Effluent Streams in Column 2:

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

Table 14  
PLANT: R.L. Hearn TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 3. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 4. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 5. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 6. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |
| 7. | 25 | Oil and grease | OWSE | Weekly | 29.0 | 13.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

OWSE = a stream of the type described in paragraph 6 of subsection 1 (2)

Table 15  
PLANT: Thunder Bay TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Non-Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ATWE | Daily | 70.0 | 25.0 |
| 2. | 8 | Total Suspended Solids | WTPE | Daily | 70.0 | 25.0 |
| 3. | 9 | Aluminum | ATWE | Weekly | 13.0 | 4.50 |
| 4. | 9 | Aluminum | WTPE | Weekly | 13.0 | 4.50 |
| 5. | 9a | Iron | ATWE | Weekly | 2.50 | 1.0 |
| 6. | 9a | Iron | WTPE | Weekly | 2.50 | 1.0 |
| 7. | 25 | Oil and grease | OWSE | Weekly | 29.0 | 13.0 |

Explanatory Notes:

Types of Non-Event Process Effluent Streams in Column 2:

ATWE = a stream of the type described in paragraph 3 of subsection 1 (2)

WTPE = a stream of the type described in paragraph 1 of subsection 1 (2)

OWSE = a stream of the type described in paragraph 6 of subsection 1 (2)

O. Reg. 310/17, s. 7.

Schedule 3  
Types of Event Process Effluent Streams, Limits, Monitoring Frequency

Table 1  
PLANT: Atikokan TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | CSSE | Daily | 25.0 | Not applicable |
| 2. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 3. | 9a | Iron | CSSE | Daily | 1.0 | Not applicable |
| 4. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

CSSE = a stream of the type described in paragraph 1 of subsection 1 (3)

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 2  
PLANT: Bruce Bulk Steam System

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Note:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 3  
PLANT: Bruce Heavy Water Plant

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |
| 3. | 15 | Sulphide | HLE | Daily | 0.8 | Not applicable |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

HLE = a stream of the type described in paragraph 5 of subsection 1 (3)

Table 4  
PLANT: Bruce NGS — A

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 6 | Total Phosphorus | RLWMSTE | Weekly | Not applicable | 1.0 |
| 2. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 3. | 8 | Total Suspended Solids | RLWMSTE | Daily | 73.0 | 21.0 |
| 4. | 9 | Zinc | RLWMSTE | Weekly | 1.0 | 0.50 |
| 5. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |
| 6. | 9a | Iron | RLWMSTE | Weekly | 9.0 | 3.0 |
| 7. | 25 | Oil and grease | RLWMSTE | Weekly | 36.0 | 13.0 |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

RLWMSTE = a stream of the type described in paragraph 2 of subsection 1 (3)

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 5  
PLANT: Bruce NGS — B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 6 | Total Phosphorus | RLWMSTE | Weekly | Not applicable | 1.0 |
| 2. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 3. | 8 | Total Suspended Solids | RLWMSTE | Daily | 73.0 | 21.0 |
| 4. | 9 | Zinc | RLWMSTE | Weekly | 1.0 | 0.50 |
| 5. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |
| 6. | 9a | Iron | RLWMSTE | Weekly | 9.0 | 3.0 |
| 7. | 25 | Oil and grease | RLWMSTE | Weekly | 36.0 | 13.0 |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

RLWMSTE = a stream of the type described in paragraph 2 of subsection 1 (3)

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 6  
PLANT: Bruce Nuclear Power Development

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 7  
PLANT: Darlington NGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 6 | Total Phosphorus | RLWMSTE | Weekly | Not applicable | 1.0 |
| 2. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 3. | 8 | Total Suspended Solids | RLWMSTE | Daily | 73.0 | 21.0 |
| 4. | 9 | Zinc | RLWMSTE | Weekly | 1.0 | 0.50 |
| 5. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |
| 6. | 9a | Iron | RLWMSTE | Weekly | 9.0 | 3.0 |
| 7. | 25 | Oil and grease | RLWMSTE | Weekly | 36.0 | 13.0 |
| 8. | 25 | Oil and grease | OWSE | Daily | 15.0 | Not applicable |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

RLWMSTE = a stream of the type described in paragraph 2 of subsection 1 (3)

OWSE = a stream of the type described in paragraph 4 of subsection 1 (3)

Table 8  
PLANT: J.C. Keith TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Note:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 9  
PLANT: Lakeview TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | CSSE | Daily | 25.0 | Not applicable |
| 2. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 3. | 9a | Iron | CSSE | Daily | 1.0 | Not applicable |
| 4. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

CSSE = a stream of the type described in paragraph 1 of subsection 1 (3)

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 10  
PLANT: Lambton TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 8 | Total Suspended Solids | CSSE | Weekly | 70.0 | 25.0 |
| 3. | 9 | Aluminum | CSSE | Weekly | 13.0 | 4.50 |
| 4. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |
| 5. | 9a | Iron | CSSE | Weekly | 2.50 | 1.0 |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

CSSE = a stream of the type described in paragraph 1 of subsection 1 (3)

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 11  
PLANT: Lennox TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Note:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 12  
PLANT: Nanticoke TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Note:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 13  
PLANT: Pickering NGS — A and B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 6 | Total Phosphorus | RLWMSTE | Weekly | Not applicable | 1.0 |
| 2. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 3. | 8 | Total Suspended Solids | RLWMSTE | Daily | 73.0 | 21.0 |
| 4. | 9 | Zinc | RLWMSTE | Weekly | 1.0 | 0.50 |
| 5. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |
| 6. | 9a | Iron | RLWMSTE | Weekly | 9.0 | 3.0 |
| 7. | 25 | Oil and grease | RLWMSTE | Weekly | 36.0 | 13.0 |
| 8. | 25 | Oil and grease | OWSE | Daily | 15.0 | Not applicable |

Explanatory Notes:

Types of Event Process Effluent Streams in Column 2:

RLWMSTE = a stream of the type described in paragraph 2 of subsection 1 (3)

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

OWSE = a stream of the type described in paragraph 4 of subsection 1 (3)

Table 14  
PLANT: R. L. Hearn TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 25.0 | Not applicable |

Explanatory Note:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

Table 15  
PLANT: Thunder Bay TGS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Analytical Test Group | Column 1  Parameter | Column 2  Types of Event Process Effluent Streams | Column 3  Monitoring Frequency | Column 4  Daily Concentration Limit mg/L | Column 5  Monthly Average Concentration Limit mg/L |
| 1. | 8 | Total Suspended Solids | ECE | Daily | 25.0 | Not applicable |
| 2. | 9a | Iron | ECE | Daily | 1.0 | Not applicable |

Explanatory Note:

Types of Event Process Effluent Streams in Column 2:

ECE = a stream of the type described in paragraph 3 of subsection 1 (3)

O. Reg. 310/17, s. 7.

[Back to top](#Top)