

General Permit for the Discharge of Wastewaters from Categorical Industrial Users to a Publicly Owned Treatment Works (POTW)

Discharges Covered:

Electroplating Wastewaters
Metal Finishing Wastewaters

Issuance Date: **March 22, 2013**
Expiration Date: **March 21, 2018**

General Permit for the Discharge of Wastewaters from Categorical Industrial Users to a Publicly Owned Treatment Works (POTW)

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Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the Connecticut General Statutes.

Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in section 22a-423 of the Connecticut General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. Additional definitions associated with this general permit are included in Appendix I.

Section 3. Authorization Under This General Permit

(a) Eligible Activities

This general permit authorizes the discharge of:

- Metal Finishing Wastewater, as defined in this general permit, to a POTW:
 - via sanitary sewer; or
 - when transported by a licensed waste hauler in accordance with Section 5(e)(4) of this general permit.

Any discharge of water, substance or material into the waters of the state other than those specified in this section is not authorized by this general permit, and any person which initiates, creates, originates or maintains such a discharge shall apply for and obtain authorization under section 22a-430 of the Connecticut General Statutes prior to the occurrence of such discharge.

(b) Requirements for Authorization

This general permit authorizes the activity listed in Section 3(a) of this general permit provided:

(1) Registration

A complete and sufficient registration with respect to such activity has been filed with the commissioner and the commissioner has issued an Approval of Registration with respect to such activity.

(2) Coastal Area Management

Such activity is consistent with all applicable goals and policies in section 22a-92 of the Connecticut General Statutes, and will not cause adverse impacts to coastal resources as defined in section 22a-93 of the Connecticut General Statutes.

(3) Endangered and Threatened Species

Such activity does not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species.

(4) Aquifer Protection

Such discharge, if it is located within an aquifer protection area as mapped under section 22a-354b of the Connecticut General Statutes, complies with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.

(5) Conservation and Preservation Restrictions

Such activities, if located on or may affect property subject to a conservation or preservation restriction, pursuant to section 47-42d of the Connecticut General Statutes, proof of written notice to the holder of such restriction of the proposed activity's registration pursuant to this general permit or a letter from the holder of such restriction verifying that the proposed activity is in compliance with the terms of the restriction shall have been provided to the commissioner.

(6) Such discharge is released to a POTW either directly via a sanitary sewer or by a properly licensed transporter in accordance with Section 5(e)(4) of this general permit.

(7) The registrant has certified in writing to the commissioner that a completed copy of the registration has been submitted to the applicable POTW Authority and the registrant has received an approval for connection to the respective POTW from such authority.

(8) Certification Requirements for Qualified Professional Engineers

The registrant has submitted to the commissioner a written certification which, at a minimum, complies with the following requirements:

- (A) such certification was signed by a qualified professional engineer as defined in this general permit;
- (B) such certification is not the subject of an audit as described under Section 22a-430b of the Connecticut General Statutes;
- (C) the qualified professional engineer signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit: (i) all registration information provided in accordance with Section 4(c)(2) of such general permit, (ii) the facility, based on a visual site inspection, (iii) compliance records, (iv) the Operation and Maintenance Plan, (v) the Spill Prevention and Control Plan, (vi) the Solvent Management Plan, if applicable, and (vii) all wastewater collection and

treatment systems and monitoring equipment, including any plans and specifications, operating records and any Department approvals regarding such wastewater collection and treatment systems and monitoring equipment;

- (D) the qualified professional engineer signing the certification has made an affirmative determination, based on the review described in Section 3(b)(8)(C) of this general permit that: (i) the Operation and Maintenance Plan, the Spill Prevention and Control Plan and the Solvent Management Plan, if applicable, which have been prepared in accordance with this general permit are adequate to assure that the activity authorized under this general permit, if implemented in accordance with such plans, will comply with the terms and conditions of such general permit; and (ii) all wastewater collection and treatment systems and monitoring equipment: (aa) have been designed and installed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable; (bb) will function properly as designed based on visual inspection, compliance and operating records and implementation of the Operation and Maintenance Plan; and (cc) are adequate to ensure compliance with the terms and conditions of this general permit;
- (E) the qualified professional engineer certifies, provided it is true and accurate, to the following statement: "I hereby certify that I am a qualified professional engineer as defined in the General Permit for the Discharge of Wastewaters from Categorical Industrial Users to a Publicly Owned Treatment Works (POTW) and as further specified in Section 3(b)(8) of such general permit. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including, but not limited to, all information described in Section 3(b)(8)(C) of such general permit and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination required in accordance with Section 3(b)(8)(D) of this general permit and that my signing this certification constitutes conclusive evidence of my having made such affirmative determination. I understand that this certification may be subject to an audit by the commissioner in accordance with Section 22a-430b of the Connecticut General Statutes, and I agree to cooperate with the commissioner should such an audit be required, including, but not limited to providing information as may be requested in writing by the commissioner in connection with any such audit. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

(9) Certification Requirements for Registrants and other Individuals

As part of the registration for this general permit, the registrant and any other individual or individuals responsible for preparing the registration submits to the commissioner a written certification which, at a minimum, complies with the following requirements:

- (A) the registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be covered under such general permit: (i) all registration information provided in accordance with Section 4(c)(2) of such general permit, (ii) the facility, based on a visual site inspection, (iii) compliance records, (iv) the Operation and Maintenance Plan, (v) the Spill Prevention and Control Plan, (vi) the Solvent Management Plan, if applicable, (vii) the Monitoring Waiver Request Form completed in accordance with Appendix V, if applicable, and (viii) all wastewater collection and treatment systems and monitoring equipment, including any plans and specifications, operating records and any Department approvals regarding such wastewater collection and treatment systems and monitoring equipment;
- (B) the registrant has, based on the review described in section 3(b)(9)(A) of this general permit, made an affirmative determination to: (i) comply with the terms and conditions of this general permit; (ii) maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Operation and Maintenance Plan, the Spill Prevention and Control Plan, the Solvent Management Plan, if applicable, the Monitoring Waiver Request Form, if applicable; and (iii) properly operate and maintain all wastewater collection and treatment systems and monitoring equipment in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution;
- (C) such registrant certifies to the following statement: "I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that such activity is eligible for authorization under such permit. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the

affirmative determination required in accordance with Section 3(b)(9)(B) of this general permit and that my signing this certification constitutes conclusive evidence of my having made such affirmative determination. I certify that written approval from the POTW Authority with jurisdiction over the receiving POTW has been granted on a form provided by the commissioner. I certify that our facility does not use products or chemicals that may result in a discharge of mercury. I understand that the registration filed in connection with such general permit may be denied, revoked or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I understand that the certification made pursuant to Section 3(b)(8) of this general permit may be subject to an audit by the commissioner in accordance with section 22a-430b of the Connecticut General Statutes, and that I will be required to provide additional information as may be requested in writing by the commissioner in connection with such audit, and the registration filed in connection with such general permit may be denied, revoked or suspended as a result of such audit. As part of such audit, I understand the commissioner may require that any information prepared in accordance with this general permit to be independently certified by a qualified professional engineer in accordance with this general permit and that such independent certification shall be at the registrant's expense. I understand that the reasonable cost of any such audit that reveals that a false certification was submitted to the commissioner may be charged to the registrant for this general permit for which such certification was made. I also understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

- (D) any other individual or individuals responsible for preparing the registration certifies to the following statement: "I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that such activity is eligible for authorization under such permit. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I understand that the registration filed in connection with such general permit may be denied, revoked or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I

understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(c) *Geographic Area*

This general permit applies throughout the State of Connecticut.

(d) *Effective Date and Expiration Date of this General Permit*

This general permit is effective on the date it is issued by the commissioner and expires five (5) years from such date of issuance.

(e) *Effective Date of Authorization*

For facilities previously permitted, an activity is authorized by this general permit on the 1st day of the month following the date of the approval of registration. The Permittee shall continue to comply with the terms and conditions of the previously issued permit until this effective date.

For new facilities, an activity is authorized by this general permit on the date the approval of registration is issued by the commissioner.

(f) *Surrender of an Individual Permit*

If an activity meets the requirements of authorization of this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be surrendered upon a written request to the commissioner by the permittee. Such surrender shall take effect on the effective date of authorization of such activity by this general permit. No person shall not operate under an individual permit and a general permit for the same activity.

(g) *Issuance of an Individual Permit*

If the commissioner issues an Approval of Registration for this general permit, and subsequently issues an individual permit for the same activity, then on the date any such individual permit is issued by the commissioner, the Approval of Registration shall automatically expire. No Person shall not operate under an individual permit and a general permit for the same activity.

Section 4. Registration Requirements

(a) *Who Must File a Registration*

Any person seeking under the authority of this general permit to discharge wastewater associated with activities eligible for coverage in accordance with this general permit shall file with the commissioner:

- (1) A registration form which meets the requirements of Section 4 of this general permit and

- (2) The applicable fee specified under Section 4 of this general permit.

(b) Scope of Registration

A registrant shall submit one registration form for all activities taking place at a single site for which the registrant seeks authorization under this general permit. Activities taking place at more than one site may not be consolidated on one registration form.

(c) Contents of Registration

(1) Fees

- (A) The registration fee established by section 22a-6f of the General Statutes of \$6,250.00 for discharges greater than or equal to 10,000 gallons a day or \$3,125.00 for discharges less than 10,000 gallons a day shall be submitted with a registration form. A registration shall not be deemed complete and no activity shall be authorized by this general permit unless the registration fee has been paid in full.
- (B) The registration fee shall be paid by check or money order payable to the **Department of Energy and Environmental Protection**.
- (C) The registration fee is non-refundable.

(2) Registration Form

A registration shall be filed on forms prescribed and provided by the commissioner and shall include but not be limited to the following:

- (A) Legal name, address, and telephone number of the registrant. If the registrant is an entity transacting business in Connecticut and is required to register with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.
- (B) Legal name, address, and telephone number of the owner of the property on which the subject activity is to take place.
- (C) Legal name, address, and telephone number of any consultant(s) or engineer(s) retained by the registrant to prepare the registration or to design or construct the subject activity.
- (D) Location address of the site with respect to which the registration is submitted.
- (E) Name of the receiving POTW.
- (F) Date discharge was/will be initiated.
- (G) On a form prescribed and provided by the commissioner, an approval by the receiving POTW Authority for connection to a POTW.

- (H) A plan of the site ("site plan") showing property boundaries, the location of the subject activity and discharge location(s).
- (I) A detailed description of the authorized discharge(s). Such description shall include a brief description of the discharge, average rate of production, the maximum and average daily flow rates in both gallons per day and gallons per minute, the method of flow measurement and the anticipated hours of discharge. The description shall also list all metal finishing subcategories, as defined by 40 CFR 413 and 433, which contribute to the discharge, as well as, the Standard Industrial Classification of the operations carried out at the facility.

Analytical data from at least one sample that is representative of typical daily operations and one sample that is representative of anticipated maximum effluent pollutant concentration(s), which are to be used in characterizing the chemical composition of each discharge and sub-discharge (e.g. cyanide or hexavalent chromium pretreatment) to be covered under this general permit reported on a form provided by the commissioner. Analytical data shall be provided for pH, pollutants listed in Section 5(a) of this general permit, all parameters necessary to demonstrate compliance with effluent limitations listed in Section 5(a) of this general permit and those listed in section 22a-430-4 Appendix B or D of the Regulations of Connecticut State Agencies that are known or suspected to be present in the discharge.

- (J) A description of the best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to prevent or minimize any adverse environmental effects of the subject discharge.
- (K) A general description of any wastewater treatment processes, such as neutralization, oil/water separation, and precipitation of solids or metals, which the registrant utilizes or will utilize to achieve compliance with any of the effluent limitations specified in Section 5(a) of this general permit. This description shall include a diagram which clearly shows all treatment units, monitoring equipment and sampling locations.
- (L) A line drawing of the water flow through the facility which clearly shows a) the intake source (e.g. well, city water, river); b) all points of chemical addition into any treatment units; c) sampling and flow meter locations; d) all separate production operations with intake and discharge points of each operation; e) treatment units with intake and discharge points of each unit; and f) a water balance that indicates approximate average and maximum daily flows at intake and discharge points of all separate production operations, treatment units and between processes.
- (M) A process flow diagram identifying each process step or tank, its work flow position, size, contents, ultimate disposal location and the discharge rate of its contents. Include in the process flow diagram any treatment unit(s) integrated

within a process. Indicate in the diagram if countercurrent rinsing is applied and indicate the direction of the countercurrent rinsing.

- (N) A Monitoring Waiver Request Form completed in accordance with Appendix V, as applicable.
- (O) For Metal Finishing wastewater discharges, a Solvent Management Plan, if applicable. Registrants currently maintaining a Department approved Solvent Management Plan shall resubmit the plan with the registration for approval.
- (P) A written certification, signed by a qualified professional engineer, which complies with the requirements of Section 3(b)(8) of this general permit.
- (Q) A written certification, signed by the registrant and any other individual or individuals responsible for preparing the registration, which complies with the requirements of Section 3(b)(9) of this general permit.
- (R) A completed Connecticut DEEP NetDMR Subscriber Agreement.

(d) Contents of a Modified Registration

- (1) A modified registration shall be submitted:
 - (A) To correct inaccurate or misleading information previously submitted to the Department, in accordance with Section 6(g) of this general permit;
 - (B) Prior to any significant facility modifications, as described in Section 5(e)(3)(A) of this general permit.
- (2) Modified Registration Form:

A modified registration shall be filed on forms described in Section 4(c) of this general permit. Such modified registration shall, at a minimum, include Sections 4(c)(2)(A)-(F) of the registration form and any additional information required by Section 5(e)(3)(A) for a facility modification. For all registration section(s) remaining unchanged from the initial registration, a registrant may indicate "Information Unchanged" in the appropriate section(s) of the registration.

(e) Where to File a Registration or Modified Registration

A registration or modified registration shall be filed with the commissioner at the following address:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

The registrant shall submit a copy of any registration or modified registration filed with the commissioner to the applicable POTW Authority.

(f) Additional Information

The commissioner may require a registrant to submit additional information, which the commissioner reasonably deems necessary to evaluate the consistency of the subject activity with the requirements for authorization under this general permit.

(g) Action by Commissioner

- (1) The commissioner shall review a registration or modified registration and make a technical determination based on such review that the discharge will not cause pollution of the waters of the state or disapprove a registration in accordance with Section 4(g)(2) of this general permit.

If the commissioner makes a technical determination that the discharge will not cause pollution of the waters of the state, then the commissioner shall provide an Approval of Registration.

The commissioner may reject without prejudice a registration or modified registration if it is determined that it does not satisfy the requirements of Section 4(c) or 4(d) of this general permit and more than thirty (30) days have elapsed since the commissioner requested that the registrant submit additional information . Any registration re-filed after such a rejection shall be accompanied by the fee specified in Section 4(c)(1) of this general permit.

- (2) The commissioner shall disapprove a registration or modified registration if it is found that the subject activity is:
 - (A) Inconsistent with the requirements for authorization under Section 3 of this general permit; OR
 - (B) Unable to comply with the effluent limitations in Section 5(a) of this general permit; OR
 - (C) The imposition of conditions in this general permit cannot ensure that the discharge, either singly or in combination with other discharges, would not cause or contribute to pollution, would not endanger human health or the environment or would not be consistent with the Connecticut Water Quality Standards; OR
 - (D) For any other reason provided by law.
- (3) Disapproval of a Registration or modified registration under this subsection shall constitute notice to the registrant that the subject activity may not lawfully be conducted or maintained without the issuance of an individual permit.
- (4) The commissioner may approve a registration or modified registration with reasonable conditions. If the commissioner approves a registration with conditions, the permittee shall be bound by such conditions as if they were a part of this general permit.

- (5) Rejection, Disapproval, or Approval of a Registration or Modified Registration shall be in writing.

Section 5. Conditions of This General Permit

The permittee shall at all times continue to meet the requirements for authorization set forth in Section 3 of this general permit. In addition, a permittee shall assure that activities authorized by this general permit are conducted in accordance with the following conditions:

(a) *Effluent Limits and Conditions*

(1) Effluent Limitations

- (A) **Effluent Limits**--Wastewater discharged under the authority of this general permit shall not exceed and shall otherwise conform to the specific terms and conditions listed in Table I, below.
- (B) **POTW Specific Effluent Limits**—If the discharge is directed to a POTW listed in Appendix VI of this general permit and has a maximum total daily flow greater than 5000 gpd, effluent limits listed in Appendix VI specific to that POTW supersede limits in Table I below.

Table I : Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum Daily Limit	Maximum Instantaneous Limit
Aluminum, Total	mg/l	----	----	----
Antimony, Total	mg/l	----	----	----
Barium, Total	mg/l	2.0	4.0	6.0
Cadmium, Total	mg/l	0.07	0.11	0.16
Chromium, Hexavalent ²	mg/l	0.1	0.2	0.3
Chromium, Total	mg/l	1.0	2.0	3.0
Cobalt, Total	mg/l	----	----	----
Copper, Total	mg/l	1.0	2.0	3.0
Cyanide, Amenable ²	mg/l	0.1	0.2	0.3
Cyanide, Total	mg/l	0.65	1.2	1.8
Fluoride	mg/l	20	30	45
Gold, Total	mg/l	0.1	0.5	0.75
Iron, Total	mg/l	----	----	----
Lead, Total	mg/l	0.1	0.5	0.75
Mercury, Total	ug/l	ND<0.2	ND<0.2	ND<0.2
Nickel, Total	mg/l	1.0	2.0	3.0
Nitrogen, Total	mg/l	----	----	----
Oil & Grease, Hydrocarbon Fraction ³	mg/l	-----	100	150
Organics, Total Toxic ^{1,4}	mg/l	----	----	2.13
Phosphorous, Total	mg/l	----	----	----
Silver, Total	mg/l	0.1	0.43 ¹	0.64
Solids, total suspended	mg/l	----	100	150

Tin, Total	mg/l	2.0	4.0	6.0
Titanium, Total	mg/l	----	----	----
Zinc, Total	mg/l	1.0	2.0	3.0
Footnotes: 1 As defined by 40 CFR 413 and 433. 2 The limits for hexavalent chromium and amenable cyanide apply at the chromium reduction and cyanide destruction systems, respectively. These pollutants shall be monitored by using a grab sample average taken prior to combination with any dissimilar discharges. 3 This pollutant shall be monitored using a grab sample average taken prior to combination with any dissimilar discharges. 4 This pollutant shall be monitored using a grab sample taken prior to combination with any dissimilar discharges.				

(2) Effluent Conditions

- (A) Wastewater discharged under the authority of this general permit shall not contain pollutants which create a fire or explosion hazard in the receiving POTW, including but not limited to, wastewaters with a closed cup flashpoint of less than 140°F (60°C) using the test methods specified in 40 CFR 261.21.
- (B) Wastewater discharged under the authority of this general permit shall not cause corrosive structural damage to the receiving POTW and shall not have a pH of less than 5.5 or more than 11.0 S.U..
- (C) Wastewater discharged under the authority of this general permit shall not contain solid or viscous pollutants in amounts which will cause obstruction of flow in the sanitary sewer system or receiving POTW.
- (D) Wastewater discharged under the authority of this general permit shall not contain heat in amounts which will inhibit biological activity in the POTW, but in no case heat in such quantities that the influent temperature at the POTW exceeds 104°F (40°C).
- (E) Wastewater discharged under the authority of this general permit shall not contain pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health or safety problems.
- (F) Wastewater discharged under the authority of this general permit shall not contain pollutants in a quantity or concentration which may cause foaming at the POTW or within the POTW's effluent.
- (G) Wastewater discharged under the authority of this general permit shall not contain either singly or in combination with other discharges any pollutant in sufficient amounts to cause acute worker health and safety problems, problems in the collection system or pass through or interference with the receiving POTW.
- (H) Wastewater discharged under the authority of this general permit shall not contain either singly or in combination with other discharges flow in excess

of the hydraulic capacity of the receiving POTW or its conveyance system.

- (I) Wastewater discharged under the authority of this general permit shall not contain mercury.

(b) Monitoring Requirements

(1) Pollutant Monitoring

The permittee shall perform chemical analyses of representative sample(s) obtained from each authorized discharge for all pollutants contained in Table I of Section 5(a)(1)(B) of this general permit. The commissioner may authorize the permittee to forego sampling of a pollutant if the permittee demonstrates through sampling and other technical factors that the pollutant is neither present nor expected to be present in the discharge, or is present only at background levels from intake water and without any increase in the pollutant due to activities of the permittee. This authorization is subject to the conditions and provisions described in Appendix V of this general permit. Permittees with an approved Solvent Management Plan may, in lieu of monitoring for TTOs, include a statement on the DMR certifying compliance with its Solvent Management Plan.

(2) Monitoring Frequency

- (A) Except as provided in Paragraph (D), below, sample analyses to determine compliance with pollutant concentration limits for discharges having a maximum daily flow of less than 5,000 gallons a day shall be conducted monthly.
- (B) Except as provided in Paragraph (D), below, sample analyses to determine compliance with pollutant concentration limits for discharges having a maximum daily flow of greater than or equal to 5,000 gallons a day but less than 10,000 gallons a day shall be conducted twice per month.
- (C) Except as provided in Paragraph (D), below, sample analyses to determine compliance with pollutant concentration limits for discharges having a maximum daily flow of greater than or equal to 10,000 gallons a day shall be conducted weekly.

Sampling Schedule	
Flow	Sampling Frequency
0 to <5,000 gpd	Monthly*
≥5,000 to <10,000 gpd	Twice per Month*
≥10,000	Weekly*
* : Please see Paragraph (D), below.	

- (D) When information provided in the registration identifies slug discharge(s) may impact discharge(s) authorized by this general permit, more frequent monitoring of such authorized discharge(s) shall be required, consistent with Section 4(g)(4) of this general permit. More frequent monitoring shall be

required for the time period(s) associated with such slug discharge(s) and clearly delineated within the Approval of Registration.

(3) Discharge Sampling

- (A) All samples shall be comprised of only those wastewaters authorized by this general permit taken prior to combination with wastewaters of any other type and after all approved treatment units, if applicable.
- (B) All samples obtained shall be representative of daily operations and shall be daily composite unless otherwise specified in the footnotes of Table I of Section 5(a)(1)(B).
- (C) Chemical collection and analysis shall be performed in accordance with 40 CFR 136 unless otherwise specified by the commissioner. All metals analyses identified in this general permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136.
- (D) Samples collected to monitor for hexavalent chromium and amenable cyanide shall be obtained from the discharge of chromium reduction and cyanide destruction systems, respectively.

(4) Flow Monitoring

The permittee shall accurately determine the quantity of wastewater discharged.

- (A) Except for batch treatment system discharges of less than one thousand (1,000) gallons per batch, equipment and instrumentation (ie., flow meter) shall be installed and maintained to accurately measure and record both instantaneous (gpm) and total daily flow (gpd). An effluent flow meter shall be:
 - (i) installed and maintained in accordance with manufacturer's specifications;
 - (ii) coupled with a continuous chart recorder and/or an electronic data recorder. If a continuous chart recorder is employed, the treatment system operator shall sign and date the chart on each day of discharge with the date and time. If an electronic data recorder is employed, the flow data shall be printed-out at a frequency of at least once per week and signed by the treatment system operator with the date and time;
 - (iii) calibrated by a qualified source at least once per year to ensure accuracy, and
 - (iv) chart recorders shall be signed at the beginning and end of each work day.
- (B) Flow from batch treatment systems with a discharge of less than one thousand (1,000) gallons per batch may be calculated based on the measured

volume within the batch discharge tank(s) and number of batches discharged in an operating day.

(5) pH Monitoring

The permittee shall accurately determine the pH of wastewater discharged.

- (A) Except for batch treatment system discharges of less than one thousand (1,000) gallons per batch, equipment and instrumentation for pH monitoring shall be installed and maintained to accurately measure and record the pH of all wastewater discharged in accordance with this general permit. An effluent pH meter shall be:
 - (i) installed and maintained in accordance with manufactures' specifications;
 - (ii) coupled with a continuous chart recorder and/or an electronic data recorder. If a continuous chart recorder is employed, the treatment system operator shall sign and date the chart on each day of discharge with the date and time. If an electronic data recorder is employed, the pH data shall be printed-out at a frequency of at least once per week and signed by the treatment system operator with the date and time; and
 - (iii) calibrated (electronic calibration) by a qualified source at least once per year to ensure accuracy; and, a standard-buffer-solution shall be performed at least monthly.
- (B) All discharges monitored with a pH meter shall have both audio and visual pH alarms that alert appropriate personnel capable of responding to incidents when the pH of the discharge goes below 6.0 or above 10.5 S.U.. Any condition which causes an alarm shall be corrected immediately, or the discharge shall be stopped until the correction is made.
- (C) For batch discharges not monitored with a pH meter, a daily log of pH readings for each batch discharged shall be maintained on site.

(6) Record Keeping Requirements

The permittee shall retain copies of all records of data used to determine compliance with this general permit for a period of at least 5 years from the date of the record. The permittee shall at a minimum maintain at the facility, records of:

- (A) the total flow for each day of discharge, consisting of the flow chart for each day of discharge and/or the flow data report from an electronic data recorder (if respective equipment is required in accordance with this general permit);
- (B) the maximum daily flow for each month of the year;
- (C) the final discharge pH for each day of discharge consisting of the pH chart for each day of discharge and/or the pH data report from an electronic data recorder (if respective equipment is required in accordance with this general

permit);

- (D) the pH range (ie., the low and high pH recorded) of the final discharge pH for each day of discharge;
- (E) the pH range (ie., the low and high pH recorded) of the final discharge pH during each calendar month of the year;
- (F) the individual(s) who performed the sampling or measurements;
- (G) the dates analyses were performed;
- (H) the individual who performed the analyses;
- (I) the analytical techniques or methods used;
- (J) the results of such analyses;
- (K) the calibration records of all pH and flow instrumentation equipment associated with wastewater treatment and discharge monitoring; and
- (L) frequency and duration for non-continuous discharges.

(c) Reporting Requirements

- (1) Results of chemical analyses shall be reported to the Bureau of Materials Management and Compliance Assurance on a Discharge Monitoring Report (DMR) each month. DMRs shall also include the Average Daily Flow and the Maximum Daily Flow for each month. DMRs shall be submitted by the last day of the month following the month in which samples are taken. Should a discharge not occur during a sampling month, a DMR shall still be submitted indicating "NO DISCHARGE".

(A) Timeline for Commencement of Electronic Reporting using NetDMR

- i) Prior to one-hundred and twenty (120) days after the approval of registration for coverage under this general permit, the permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows permittees to electronically submit DMRs and other required reports through a secure internet connection.
- ii) Unless otherwise approved in writing by the commissioner, no later than one-hundred and twenty (120) days after the approval of registration for coverage under this general permit, the permittee shall begin reporting electronically using NetDMR.

(B) DMR Due Date

DMRs shall be submitted electronically to the Department no later than the last day of the month following the month in which samples are taken. Once a permittee begins submitting reports using NetDMR, it shall no longer be required to submit hard copies of DMRs or other reports to the Department.

- (2) Copies of all DMRs shall be submitted concurrently to the local Water Pollution Control Authority(ies) involved in the treatment and collection of the permitted discharge.
- (3) All individual sample results shall be attached to respective DMRs. When submitting NetDMRs, individual analytical results shall be submitted as an attached table.
- (4) In accordance with Section 5(e)(2)(C) of this general permit, the permittee may, in lieu of analyzing for Total Toxic Organics, include a statement on the monthly DMR, at the frequency required, certifying compliance with its Solvent Management Plan if such plan has been approved by the commissioner in accordance with Section 22a-430-4(l) of the Regulations of Connecticut State Agencies and by 40 CFR 413 (Electroplating) or 433 (Metal Finishing). If such approval has been granted and the report includes the compliance statement, sampling for Total Toxic Organics is not required for the respective sampling period.
- (5) If the permittee monitors any discharge more frequently than required by the general permit using test procedures approved under 40 CFR 136 or specified in the general permit, the results shall be included in the calculation and reporting of the data in the monitoring report.

(d) Recording and Reporting Violations

- (1) The permittee shall immediately notify the Bureau of Materials Management and Compliance Assurance (Attn: Water Permitting and Enforcement Division) and the local WPCA of all discharges that could cause problems to the POTW, including but not limited to slug discharge of pollutants which may cause a violation of the POTW's NPDES permit, or which may inhibit or disrupt the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- (2) If any sampling and analysis of the discharge performed by the permittee indicates a violation of the pollutant concentration limits contained in this general permit, the permittee shall:
 - (A) notify the Bureau of Materials Management and Compliance Assurance (Attn: Permitting and Enforcement Division) within twenty-four (24) hours of becoming aware of the violation or if the violation is greater than two times the permitted level provide such notification within two (2) hours of becoming aware of such violation;

- (B) obtain a second representative sample of the effluent, analyze such sample for the parameter(s) in question, and report the results to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) within 30 days of the violation; and
 - (C) follow procedures to correct such violation in accordance with Section 6(b) of this general permit.
- (3) A detailed written explanation of any violation of effluent limitations or general permit conditions shall be submitted to the Department simultaneous to the respective NetDMR. This explanation shall include a description of the violation and its cause; the period of noncompliance including exact times and dates, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, as well as the root-cause of the noncompliance and corrective action necessary to eliminate/minimize any future noncompliance. If the noncompliance is greater than two times the permitted level or the condition may endanger human health, the environment or the operation of a POTW, then the detailed written explanation shall be provided within five (5) days of becoming aware of such noncompliance to:

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(e) *Operating Conditions*

(1) Wastewater Treatment Systems and Controls

- (A) The permittee shall at all times properly operate and maintain all wastewater treatment equipment necessary to achieve compliance with effluent limitations and conditions.
- (B) The permittee shall at all times properly operate and maintain the wastewater treatment equipment as certified to in its registration or modified registration, unless a modification associated with the operation and maintenance is necessary to correct a permit violation or avoid an imminent permit violation.

(2) Plans

- (A) The permittee shall prepare an Operation and Maintenance Plan for the wastewater collection, storage, treatment, and control systems for the activity covered by this general permit. At a minimum, such plan shall include all of the elements described in Appendix II of this general permit and describe the effective performance of the collection and treatment systems, adequate funding, operator training, laboratory and process controls and quality assurance procedures. The permittee shall maintain such plan at the facility at all times and shall amend and update such plan as necessary to assure

compliance with the terms and conditions of this general permit. The permittee shall perform all actions required by the Operation and Maintenance Plan and maintain compliance with it thereafter.

- (B) The permittee shall prepare a Spill Prevention and Control Plan for the activity covered by this general permit. At a minimum, such plan shall include all of the elements described in Appendix III of this general permit and describe all measures taken to prevent and control unplanned releases during the storage, collection, transfer, transport, treatment, loading and unloading of all toxic or hazardous substances, oils, process wastewaters, solvents, and any other chemicals. The permittee shall maintain such plan at the facility. The permittee shall perform all actions required by the Spill Prevention and Control Plan and maintain compliance with it thereafter.
- (C) For metal finishing wastewaters, in accordance with Section 5(b)(1) of this general permit, a permittee may develop a Solvent Management Plan and maintain it at the facility in lieu of monitoring for Total Toxic Organics. Such plan must be approved by the commissioner in accordance with sections 22a-430-3(j)(5) and 22a-430-4(l) of the Regulations of Connecticut State Agencies, as well as 40 CFR 413 (Electroplating) and 433 (Metal Finishing). At a minimum, such plan shall either certify that TTOs are not used or stored at the facility or shall contain all of the elements contained in Appendix IV of this general permit, including but not limited to a description of the TTOs used at the facility, methods of disposal and methods used to ensure that TTOs do not spill or leak into wastewater. Registrants currently maintaining a Department approved Solvent Management Plan shall resubmit the plan for approval. The permittee shall maintain such plan at the facility at all times and shall amend and update such plan as necessary to assure compliance with the terms and conditions of this general permit and Sections 22a-430-3(j)(5) and 22a-430-4(l) of the Regulations of Connecticut State Agencies, as well as 40 CFR 413 (Electroplating) and 433 (Metal Finishing). The permittee shall perform all actions required by the Solvent Management Plan and maintain compliance with it thereafter.

(3) Facility and Treatment System Modifications

- (A) The permittee shall notify the commissioner prior to any expansion, alteration, increase in production or modification to processes that may result in (1) the introduction of a pollutant that was not known or suspected present in the authorized discharge(s) at the time of registration; (2) an increase in pollutant loading greater than twice previous registration levels; or (3) a change in the maximum daily flow to a level requiring a change in the effluent monitoring frequency. Wastewaters associated with such modification(s) may not be discharged without the prior written approval of the commissioner in the form of an Approval of Registration. Notification shall consist of a modified registration submitted in accordance with Section 4(d) of this general permit and include the following additional information:
 - (i) A description of each proposed process modification, the nature of the

proposed modification, and how the modification is expected to affect the authorized discharge(s). Include a timeline for implementation and expected completion of the proposed changes.

- (ii) For material substitutions or addition of new chemicals or new sources to the discharge, identify all new substances that include or may break down into those listed in Appendix B or D of section 22a-430-4 of the Regulations of Connecticut State Agencies that can be expected to be present in the authorized discharge(s) as a result of the modification.
 - (iii) A copy of the Material Safety Data Sheet for each chemical substance identified in your modification request. Material Safety Data Sheets need not be provided for substances listed in Appendix B or D of Section 22a-430-4 of the Regulations of Connecticut State Agencies; but shall be provided for all trade-named compounds. The projected concentration in the authorized discharge(s) for those substances identified above.
 - (iv) A statement regarding how the proposed facility modification affects a previously authorized monitoring waiver, as applicable.
 - (v) For all new substances referred to in Paragraph (ii), above, the projected concentration(s) expected to be present in the authorized discharge(s).
 - (vi) On a form prescribed and provided by the commissioner, an approval by the applicable POTW Authority for connection to a POTW.
 - (vii) A certification signed by a qualified professional engineer in accordance with Section 4(c)(2)(P) of this general permit.
- (B) The permittee shall notify the Department within fifteen (15) days after expanding or significantly altering its wastewater collection or treatment system or its method of operation. Treatment system modifications **do not** require Department approval. Information provided should **clearly detail** all modifications and include the following additional information:
- (i) A detailed explanation of any changes made to or proposed for the existing wastewater collection or treatment system or its method of operation. Explain the need for implementing each change and the anticipated effects the changes will have on the authorized discharge(s).
 - (ii) For material substitutions or addition of new treatment chemicals, identify all new substances that include or may break down into those listed in Appendix B or D of Section 22a-430-4 of the Regulations of Connecticut State Agencies that can be expected to be present in the authorized discharge(s) as a result of the modification.
 - (iii) A copy of the Material Safety Data Sheet for each chemical substance identified in your modification request. Material Safety Data Sheets

need not be provided for substances listed in Appendix B or D or Section 22a-430-4, but must be provided for all trade-named compounds.

- (iv) A statement regarding how the proposed modification affects a previously authorized monitoring waiver, as applicable.
- (v) An up-dated treatment system diagram, consistent with Section 4(c)(2)(K) of this general permit.
- (vi) A certification signed by a qualified professional engineer in accordance with Section 4(c)(2)(P) of this general permit.

(4) Collection and Transport of Wastewater in accordance with this general permit

- (A) Any permittee who is authorized to discharge wastewater to a POTW under this general permit, and does not have direct access to a sanitary sewer for the disposal of such wastewater shall:
 - (i) Install appropriate facilities to store such wastewater;
 - (ii) Provide for the conveyance of such wastewater to a POTW that has received approval from the Department to accept such wastewater by means of a properly licensed waste transporter for further treatment in the manner prescribed by the applicable POTW Authority;
 - (iii) Provide written certification to such POTW Authority that such wastewater is not a Hazardous Waste as defined in 40 CFR 261, Subparts C and D; and
 - (iv) Provide written certification to such POTW Authority that the treatment of such wastewater, even if it is not itself hazardous, will not result in the generation of a hazardous waste as defined in 40 CFR 261 Subpart D, including but not limited to any of the following hazardous wastes:

EPA Hazardous Waste Code	Description of Waste
F006	Wastewater treatment sludges from electroplating operations, except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
F012	Quenching wastewater treatment sludges from metal heat treating operations where cyanides

	are used in the process.
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum, except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.

- (B) All such wastewater transported to a POTW shall comply with the effluent limitations specified in Section 5(a) of this general permit.
- (C) Any holding tank constructed for the storage of wastewater shall comply with the following:
 - (i) An above-ground holding tank shall be a double-walled tank or have 110% secondary containment storage capacity;
 - (ii) A below-ground holding tank shall be constructed of either fiberglass or reinforced plastic; and
 - (iii) Any holding tank, whether located above or below-ground, shall be equipped with a hard-wired, high level alarm system clearly audible in the normal working range of responding personnel, which alarm system shall indicate when the volume of wastewater in such holding tank has reached 80% of its holding capacity.

(f) *Regulations of Connecticut State Agencies Incorporated into this General Permit*

Unless specific conditions, terms or limitations within this general permit are more restrictive, the permittee shall comply with the following Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein:

Section 22a-430-3 General Conditions

- (a) Definitions
- (b)(1)-(5) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty to Comply
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control

- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (o) Permit Transfer
- (p) Permit revocation, denial or modification
- (s) Treatment Requirements for Metals and Cyanide
- (t) Discharges to POTWs – Prohibitions

Section 6. General Conditions

(a) *Reliance on Registration*

When evaluating a registration, the commissioner relies on information provided by the registrant. If such information proves to be false or incomplete, the authorization issued under this general permit may be suspended or revoked in accordance with law, and the commissioner may take any other legal action provided by law.

(b) *Duty to Correct Violations*

Upon learning of a violation of a condition of this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct such violation and mitigate its results and prevent recurrence of such violation

(c) *Duty to Provide Information*

If the commissioner requests any information pertinent to the authorized activity or to determine compliance with this general permit or with the permittee's Approval of Registration, the permittee shall provide such information in writing within thirty (30) days of such request. Such information shall be certified in accordance with Section 6(d) of this general permit.

(d) *Certification of Documents*

Any document, including but not limited to any notice, which is submitted to the commissioner under this general permit shall be signed by, as applicable, the registrant or the permittee in accordance with section 22a-430-3(b)(2) of the Regulations of Connecticut State Agencies, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

(e) *Date of Filing*

For purposes of this general permit, the date of filing with the commissioner of any document is the date such document is received by the commissioner. The word “day” as used in this general permit means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

(f) *False Statements*

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

(g) *Correction of Inaccuracies*

Within fifteen (15) days after the date a registrant becomes aware of a change in any of the information submitted pursuant to this general permit, becomes aware that any such information is inaccurate or misleading, or that any relevant information has been omitted, such registrant shall correct the inaccurate or misleading information with written correspondence to the commissioner. If the commissioner has already issued an Approval of Registration for the discharge in accordance with this general permit, then such permittee shall provide the revised information in writing to the commissioner on a modified registration. Such information shall be provided in accordance with Section 4(d) of this general permit.

(h) *Transfer of Authorization*

An Approval of Registration under this general permit is transferable only in accordance with the provisions of section 22a-6o of the General Statutes and section 22a-430-4(o) of the Regulations of Connecticut State Agencies.

(i) *Other Applicable Law*

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

(j) *Other Rights*

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or activity affected by such general permit. In conducting any activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

Section 7. Commissioner's Powers

(a) *Abatement of Violations*

The commissioner may take any action provided by law to abate a violation of this general permit, including the commencement of proceedings to collect penalties for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

Violations of any of the terms, conditions or limitations contained in this general permit may subject the permittee to enforcement action, including but not limit to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the Connecticut General Statutes and Regulations of Connecticut State Agencies. Specifically, civil penalties of up to twenty-five thousand dollars may be assessed per violation per day.

(b) *General Permit Revocation, Suspension, or Modification*

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify it to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) *Public Notice of Facilities in Significant Noncompliance*

The commissioner may provide public notification, in a newspaper of general circulation in the area of the respective POTW, of permittees that at any time in the previous twelve months were in significant noncompliance with the provisions of this general permit.

(d) *Filing of an Individual Permit Application*

If the commissioner notifies a permittee in writing that such permittee must obtain an individual permit to continue lawfully conducting the activity authorized by this general permit, the permittee may continue conducting such activity in accordance with this general permit only if the permittee files an application for an individual permit within sixty (60) days of receiving the commissioner's notice. While such application is pending before the commissioner, the permittee shall comply with the terms and conditions of this general permit and the subject Approval of Registration. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued: March 22, 2013

Macky McCleary /s/ for

Daniel C. Esty
Commissioner

This is a true and accurate copy of the general permit executed on **March 22, 2013** by the Department of Energy and Environmental Protection.

Appendix I

Definitions

As used in this general permit, the following definitions shall apply:

“Approval of Registration” means an Approval of Registration issued under Section 4 of this general permit.

“Authorized activity” means any activity authorized by this general permit.

“Average Daily Flow” means the average of all total daily flows measured during any calendar month.

“Average Monthly Limit” means the average concentration of a substance as measured by the average of all daily composite, defined composites, grab(s) or grab sample averages taken during any calendar month.

“Batch Treatment System” means a treatment system that collects wastewater to be treated at one time, without additional wastewater being added once treatment has commenced until the batch has been fully discharged.

“Categorical General Permit” means the General Permit for the Discharge of Wastewaters from Categorical Industrial Users to a Publicly Owned Treatment Works (POTW).

“CFR” means the Code of Federal Regulations.

“Commissioner” means commissioner as defined by section 22a-2(b) of the Connecticut General Statutes.

“Continuous Treatment System” means a treatment system that treats wastewater on a continuous basis; with additional wastewater entering the treatment system without interruption of treatment.

“Day” means the twenty-four hour period commencing at 12:00 a.m., and, unless specified as “business day” shall mean calendar day.

“Department” means the Department of Energy and Environmental Protection.

“Individual permit” means a permit issued to a named permittee under section 22a-430 of the Connecticut General Statutes.

“In responsible charge” means professional experience for which the Commissioner determines that a professional’s primary duties consistently involve a high level of responsibility and decision making in the planning and designing of engineered systems for the treatment of industrial and commercial wastewaters. The Commissioner shall consider the following in determining whether a professional’s experience qualifies as responsible charge experience:

- (1) the level of independent decision-making exercised;
- (2) the number of individuals and the disciplines of the other professionals that the professional supervised or coordinated;
- (3) the extent to which a professional's responsibilities consistently involved the review of work performed by other professionals involved the planning and designing of engineered systems for the treatment of industrial and commercial wastewaters;
- (4) the extent to which a professional's responsibilities consistently involved the planning and designing of engineered systems for the treatment of industrial and commercial wastewaters and whether such responsibilities were an integral and substantial component of the professional's position;
- (5) the nature of a professional's employer's primary business interests and the relation of those interests to planning and designing of engineered systems for the treatment of industrial and commercial wastewaters;
- (6) the extent to which a professional has engaged in the evaluation and selection of scientific or technical methodologies for planning and designing of engineered systems for the treatment of industrial and commercial wastewaters;
- (7) the extent to which a professional drew technical conclusions, made recommendations, and issued opinions based on the results of planning and designing of engineered systems for the treatment of industrial and commercial wastewaters; and
- (8) any other factor that the Commissioner deems relevant.

"Maximum Daily Limit" means the maximum concentration as measured in a daily composite sample, defined composite, grab(s) or grab sample average.

"Maximum Daily Flow" means the greatest volume of wastewater to be discharged over an operating day.

"Metal Finishing Wastewater" means wastewater subject to the provisions of 40 CFR 413 (Electroplating Point Source Category) or 40 CFR 433 (Metal Finishing Point Source Category). Metal finishing wastewater shall not include non-contact cooling water, domestic sewage, blowdown from heating and cooling equipment, stormwater, or wastewater(s) not subject to the provisions of 40 CFR 413 or 40 CFR 433.

"Maximum Instantaneous Limit" means the maximum concentration as determined by a grab sample.

"Municipality" means a city, town or borough of the state.

"Permittee" means any person to whom or which the commissioner has issued an Approval of Registration under this general permit.

“Person” means person as defined by section 22a-2(c) of the Connecticut General Statutes.

“POTW” means publicly owned treatment works as defined by section 22a-430-3(a) of the Regulations of Connecticut State Agencies.

“POTW Authority” means the chairperson or responsible official of the Water Pollution Control Authority which owns or operates a POTW.

“Professional Engineer” or *“P.E.”* means a person with a currently effective license issued in accordance with Chapter 391 of the Connecticut General Statutes.

“Qualified Professional Engineer” means a professional engineer who: (1) has, for a minimum of eight years, engaged in the planning or designing of engineered systems for the treatment of industrial and commercial wastewaters including, but not limited to, a minimum of four years in responsible charge of the planning or designing of engineered systems for such discharges; (2) is not an employee, as defined by the Internal Revenue Service of the Internal Revenue Code of 1986, of the registrant for the general permit; (3) does not have a financial interest, of any kind, in the activity for which a certification is being submitted; (4) has not engaged in any activities associated with the preparation, planning, design or engineering of the plans and specifications for the engineered treatment systems for which a certification is being submitted; and (5) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, design or engineering of the plans and specifications for the engineered treatment systems for which a certification is being submitted.

“Registrant” means a person who files a registration pursuant to Section 4 of this general permit.

“Registration” means a registration form filed with the commissioner pursuant to Section 4. of this general permit.

“Significant Noncompliance”, for the purposes of this general permit, a permittee is in significant noncompliance if its violation(s) meet one or more of the following criteria:

- (1) **Chronic violations:** Those in which sixty-six percent (66%) or more of all of the measurements taken for the same pollutant parameter during a six-month period exceed the average monthly, maximum daily or maximum instantaneous limit(s), as well as any other condition or limit established in Section 5(a) of this general permit.
- (2) **Technical Review Criteria Violations:** Those in which thirty-three percent (33%) or more of all of the measurements taken for the same pollutant parameter during a six-month period equal or exceed the average monthly, maximum daily or maximum instantaneous limit(s) multiplied by 1.4 (for BOD, TSS, oil and grease) or 1.2 (for all other pollutants except pH).
- (3) **Noncompliance Reporting:** Failure to accurately report noncompliance in accordance with this general permit or section 22a-430-3 of the Regulations of Connecticut State Agencies.
- (4) **Discretionary:** Any other violation of an effluent limit that the Department determines

has caused, alone or in combination with other discharges, interference or pass-through (including endangering the health of POTW personnel and the general public).

- (5) **Imminent Endangerment:** Any discharge of pollutant(s) that has caused imminent endangerment to human health, welfare or to the environment.
- (6) **Monitoring Reports:** Failure to provide, within 45 days after the due date, required reports such as Discharge Monitoring Report(s).
- (7) **Other:** Any other violation or group of violations, which may include a violation of Best Management Practices, which the Commissioner determines will adversely affect the operation or implementation of the Department's pretreatment program.

"Site" means geographically contiguous land or water on which an authorized activity takes place or on which an activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person and connected by a right-of-way which such person controls and to which the public does not have access shall be deemed the same site.

"Slug discharge" means any discharge of metal finishing wastewater(s) capable of containing pollutant(s) at level(s) significantly above typical daily operations and/or that could potentially approach or exceed respective effluent limitations listed in Section 5(a) of this general permit.

"Total Toxic Organics" or *"TTO"* means the summation of all quantifiable values greater than 0.01 mg/l for toxic organics listed in 40 CFR 413.02(i) and 40 CFR 433.11(e).

"Watercourse" means watercourse as defined in section 22a-38 of the Connecticut General Statutes.

"Water Pollution Control Authority" or *"WPCA"* means Water Pollution Control Authority as designated in Chapter 103 of the Connecticut General Statutes.

Appendix II

Operation and Maintenance Plan

An adequate Operation and Maintenance Plan shall contain the following:

1. A detailed description of all on-site wastewater treatment equipment including:
 - a. A description of all treatment units, including their manufacturer and model, all tank sizes, system operating capacities and retention times.
 - b. A functional description of each treatment system and subsystem including a discussion of how each item functions and variables that might affect performance.
2. A detailed description of the collection system and treatment system operation including start-up, shut-down, power outage, and emergency treatment control procedures. Each procedure shall include the positions of all switches, valves, instrument settings and precautions. For batch systems, include operating instructions describing treatment and testing procedures to be performed for each batch, when different treatments are to be used and instructions for operating the different types of treatments.
3. A detailed description of the methods used and frequency that all meters and probes are calibrated and cleaned. The minimum frequency shall meet the manufacturer's recommendations. For final discharge meters and probes, the minimum frequency of cleaning and calibration must be the manufacturer's recommendation.
4. A detailed description of all of the alarm(s) in the system and a schedule for testing each one.
5. An inventory of all spare parts and equipment kept at the facility for the wastewater treatment system.
6. A list of all treatment chemicals, quantities stored at the facility and dosage rates.
7. A maintenance schedule for the proper operation of the collection and treatment system, both preventive and corrective, with proposed daily, weekly, monthly, semi-annual and annual inspections and procedures.
8. The number of full or part time waste water treatment system operators needed to properly run the system at all times and a detailed description of any training the operators have had in the proper operation of the treatment systems.
9. A description of records and log(s) to be kept near the treatment system or readily accessible, for operational monitoring and inspections. All entries in logs shall indicate the time and date they are made and be initialed. Such records and log books shall include the following information, as applicable:

- a. For all discharges:
 - (i) the total daily flow for each day of discharge, consisting of the flow chart for each day of discharge and/or the flow data report from an electronic data recorder (if respective equipment is required in accordance with this general permit);
 - (ii) the maximum daily flow for each month of the year;
 - (iii) the final discharge pH for each day of discharge consisting of the pH chart for each day of discharge and/or the pH data report from an electronic data recorder (if respective equipment is required in accordance with this general permit);
 - (iv) the pH range (ie., the low and high pH recorded) of the final discharge pH for each day of discharge;
 - (v) the pH range (ie., the low and high pH recorded) of the final discharge pH during each calendar month of the year;
 - (vi) the individual(s) who performed the sampling or measurements;
 - (vii) the dates analyses were performed;
 - (viii) the individual who performed the analyses;
 - (ix) the analytical techniques or methods used;
 - (x) the results of such analyses;
 - (xi) the calibration records of all pH and flow instrumentation equipment associated with wastewater treatment and discharge monitoring;
 - (xii) frequency and duration for non-continuous discharges; and
 - (xiii) type and quantity of each treatment chemical used per day.
- b. for batch treatment systems:
 - (i) number of gallons discharged per batch;
 - (ii) treatment chemicals added to each batch;
 - (iii) the results of any chemical analysis done on each batch;
 - (iv) what the wastewater of each batch consisted of (what processes contributed to the batch);
 - (v) any maintenance performed on the system; and
 - (vi) any observations the operator may have noticed about the discharge (clarity, foam, etc.).
- c. for flow through systems:
 - (i) flow - total daily and each shift;
 - (ii) treatment chemical dosage rates and/or quantity of chemical used each day;
 - (iii) daily/shift treatment chemical tank levels;
 - (iv) the results of any chemical analysis performed on the discharge;
 - (v) any maintenance performed on the system;
 - (vi) the reason for any upsets that may have occurred; and
 - (vii) any observations the operator may have noticed about the discharge (clarity, foam, etc.).

10. A description of any security measures to prevent vandalism of the collection and treatment systems.

11. A diagram of the treatment system showing the flows associated with each discharge. The diagram shall show all incoming waste streams, treatment units and their sizes, treatment chemical additions, all pumps and valves, electrical equipment (pH sensors, controllers and alarms, high level sensors and alarms, etc.) and connections between electrical units. Average, maximum, and design flow rates of incoming waste streams between treatment units and from discharge points and pumps shall be indicated.

Appendix III

Spill Prevention and Control Plan

An adequate Spill Prevention and Control Plan shall contain the following:

1. A copy of the site plan, exactly as prepared in Section 4(c)(2)(H) of this general permit, and topographic map.
2. Supplemental layout drawings shall be prepared as necessary to illustrate any item which is not included on the site plan or topographic map including:
 - a) a general layout of the facility;
 - b) property boundaries;
 - c) surface water bodies and wetlands on and adjacent to the facility;
 - d) entrance and exit routes to/from the facility;
 - e) areas occupied by manufacturing or commercial facilities;
 - f) hazardous materials process and storage areas;
 - g) waste handling, storage and treatment facilities;
 - h) loading and unloading areas;
 - i) storm drainage systems, including their discharge locations;
 - j) sanitary sewer lines and/or septic systems;
 - k) direction of drainage from hazardous material and waste handling, storage and treatment areas;
 - l) floor drains, pipes, and channels which lead away from potential leak or spill areas and where these drain to; and
 - m) spill prevention structures.
3. A chemical inventory list of all toxic and hazardous substances and compounds stored at the facility. The list shall indicate the name, CASE number, quantity stored, and any hazardous/toxic components of all substances and compounds.
4. A description of all spill prevention equipment and structures employed including underground seepage protection, cathodic protection of underground tanks, leak detection equipment, liquid level sensing devices, alarms, collision protection, diversionary structures, dikes, berms, sealed drains, etc. All such equipment and structures shall be shown or referenced on the layout drawings required by element 2 of this checklist.
5. A description of each facility used for the storage, collection, transfer, transport, treatment, loading or unloading of the substances listed in the plan as required by element 3 of this checklist and an evaluation of each facility's potential to generate a spill, leak or other unplanned release and the potential magnitude of such a release as related to the containment capacities of the various spill control structures described in the plan required by element 4 of this checklist. The evaluation shall demonstrate that good

engineering practices have been instituted, including the spill prevention and control requirements of 40 CFR 112 and 264 and the General Permit for the Discharge of Stormwater Associated with Industrial Activities issued April 14, 2009 as applicable. At a minimum, the plan should provide that all areas in which chemicals are stored are provided with impermeable containment which will hold at least the volume of the largest chemical container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. In addition, no interior building floor drains shall exist which are connected to any storm drainage system or which may otherwise direct interior floor drainage to exterior surfaces, unless such floor drain connection has been approved and permitted by DEEP.

6. A description of spill prevention procedures including practices to ensure tanks are not overfilled, chemical transfer procedures, chemical disposal practices, security measures, and operation and maintenance procedures. Descriptions of the type and frequency of inspections and monitoring for leaks or other conditions that could lead to spills shall be included in the plan.
7. A list of available emergency response equipment at the site including a physical description of such equipment and its location. The location shall be indicated on the facility layout required by element 2 of this checklist. The list of equipment shall include, at a minimum, the following:
 - a) Communication Equipment and Alarms;
 - b) Spill Containment and Control Equipment and Tools;
 - c) Spilled Material Storage Containers;
 - d) Protective Clothing and Respirators;
 - e) First Aid Kits;
 - f) Decontamination Equipment; and
 - g) Ventilation Equipment.
8. A detailed description of procedures to be followed when responding to a spill at the facility. This description shall cover the following items:
 - a) Notification of Facility Personnel for Responding to Spills;
 - b) Chain of Command for Spill Response;
 - c) Evacuation Procedures;
 - d) Notification of Response Agencies and Contractors;
 - e) Spill Assessment and Response Procedures;
 - f) Procedures for Preventing Contact between Incompatible Materials; and
 - g) Procedures for Disposing or Treating Spilled Material.
9. A description of follow-up reporting and documentation procedures to be followed in the event of a spill. A copy of the forms used shall be included.
10. A detailed outline of the training program or programs given to employees which will enable them to understand the processes and materials with which they are working, the safety and health hazards of such processes and materials, and the procedures and practices for preventing and responding to spills. A

discussion of the appropriateness of training provided to each employee or group of employees should also be included in the plan.

11. A history of spills and leaks of five gallons or more of toxic or hazardous substances as defined in section 22a-430-4 Appendix B and Appendix D of the Regulations of Connecticut State Agencies and 40 CFR 116.4, oil, and process wastewaters that occurred at the facility within the last three years. As applicable, include at a minimum, the following information:

- a) Type and amount of substance spilled;
- b) Location, date, and time of spill;
- c) Watercourse, soil or ground water affected;
- d) Cause of Spill; and
- e) Action taken to prevent recurrence.

Appendix IV

Solvent Management Plan

A Solvent Management Plan shall be submitted when a registrant proposes to forego monitoring of TTOs in accordance with Section 5(b)(1) of this general permit. An adequate plan shall contain the following:

1. An inventory of toxic organic compounds, as defined in 40 CFR 433 and 413, used or suspected to be present in the discharges. This inventory shall include the trade name/manufacturer, quantity and concentration of each toxic organic compound and the source of each toxic organic compound.
2. A list of all processes where TTOs are used at the facility and a description of the methods used to ensure that TTOs do not enter any wastewaters at the facility.
3. The method of disposal of toxic organic compounds including the method of storage of such compounds prior to disposal. This section shall identify the quantity and size of containers used for collection of toxic organic compounds, the maximum quantity of materials containing toxic organic compounds stored on-site at any one time, the frequency when spent toxic organic compounds are replaced and disposed of, the storage locations prior to disposal and the name of any licensed haulers disposing of such compounds.
4. Housekeeping and Recordkeeping Procedures: Descriptions of the type and frequency of inspections and monitoring for leaks or other conditions that could lead to spills of toxic organic compounds shall be provided. Also, recordkeeping log forms shall be kept in each area where materials containing toxic organic compounds are present. These forms shall list all toxic organic compounds found in the area and material safety data sheets for each material containing toxic organic compounds.
5. Spill and Leak Prevention Measures: A description of each area used for the collection, storage and transfer of materials containing toxic organic compounds and an evaluation of such an area for its potential to generate a spill, leak or any other unplanned release of materials containing toxic organic compounds. Also, include a description of all spill prevention equipment and structures utilized at the facility.
6. Cleanup and Disposal Procedures: A detailed description of procedures to be followed when responding to a spill at the facility. This description shall include all the items listed in element 8 of the Spill Control Plan Checklist.
7. Plot Plan: A plot plan of the facility shall clearly show all collection, storage and transfer areas of toxic organic compounds including floor drains, the direction of drainage from a potential spill and spill prevention structures and equipment.
8. Historical Data: Summarize and evaluate any Total Toxic Organic (TTO) monitoring results over the past 2 years.

Appendix V

Monitoring Waiver

A Monitoring Waiver for Pollutants shall be submitted when a registrant proposes to forego monitoring of pollutants in accordance with Section 5(b)(1) of this general permit.

The commissioner may authorize a permittee subject to this general permit to forego sampling of a pollutant (except for total toxic organics) if the permittee has demonstrated through sampling and other technical factors that the respective pollutant is neither present nor expected to be present in the discharge above background levels from intake water and without any increase in the pollutant due to activities of the permittee.

A monitoring waiver will not be granted for any pollutant that is added to the authorized discharge, in any quantities. Where monitoring and/or other data shows that the pollutant is present at levels above the background intake water level, the commissioner shall deny the request for the monitoring waiver.

The permittee's demonstration shall be made at the time of registration on forms provided by the commissioner and shall include, but not be limited to, the following:

- 1) A list of each of pollutant associated with the monitoring waiver request.
- 2) Analytical data for each pollutant from at least one sample of the facility's authorized discharge(s), after treatment. This sample shall be representative of all wastewaters capable of being discharged from the facility through the respective authorized discharge location(s) and shall be obtained and analyzed consistent with 40 CFR 136.
- 3) Analytical data for each pollutant from at least one sample of the facility's authorized discharge(s), prior to any treatment. This sample shall be representative of all wastewaters capable of being discharged from the facility through the respective authorized discharge location(s) and shall be obtained and analyzed consistent with 40 CFR 136.
- 4) For those parameters detected in either the treated or untreated wastewater, analytical data for the influent water.
- 5) A request for monitoring waiver signed by a "responsible corporate officer", if the permittee is a corporation, or by a general partner or proprietor if the permittee is a partnership or sole proprietorship. For purposes of the monitoring waiver requirements, "responsible corporate officer" means: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation. The request for monitoring waiver shall include the following:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for

submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Non-detectable sample results may only be used as a demonstration that a pollutant is not present, if the EPA approved method from 40 CFR 136 with the lowest minimum detection level for that pollutant is utilized.

Granting of the monitoring waiver will be identified within the Approval of Registration.

If the monitoring waiver request is granted, then the permittee shall provide the following certification on all subsequent discharge monitoring reports:

“BASED ON MY INQUIRY OF THE PERSON OR PERSONS DIRECTLY RESPONSIBLE FOR MANAGING COMPLIANCE WITH THIS GENERAL PERMIT, I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THERE HAS BEEN NO INCREASE IN THE LEVEL OF _____{LIST POLLUTANTS FOR WHICH A WAIVER WAS GRANTED} IN THE WASTEWATERS DUE TO THE ACTIVITIES AT THE FACILITY SINCE FILING OF THE LAST DISCHARGE MONITORING REPORT.”

In the event that a waived pollutant is found to be present or is expected to be present in the authorized discharge(s) based on changes that occur at the facility, the permittee shall immediately comply with the monitoring requirements or more frequent monitoring requirements imposed by the general permit.

Appendix VI

POTW – Specific Effluent Limits

In addition to complying with the effluent limits identified in Section 5(a) of this general permit, wastewater discharged under the authority of this general permit shall comply with the following POTW-specific effluent limits:

Table II : City of Bristol POTW				
Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum Daily Limit	Maximum Instantaneous Limit
Lead, Total	mg/l	0.03	0.06	0.09

Table III : Town of Litchfield, Town of Ridgefield (Route 7), Town of Sharon and Town of Vernon POTWs				
Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum Daily Limit	Maximum Instantaneous Limit
Copper, total	mg/l	0.54	0.73	1.09

Table IV : Town of Canaan, Town of New Canaan, Town of Norfolk, Town of Plymouth, Town of Ridgefield (South Street) and Town of Salisbury POTWs				
Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum Daily Limit	Maximum Instantaneous Limit
Copper, Total	mg/l	0.54	0.73	1.09
Zinc, Total	mg/l	0.47	0.72	1.08

Table V : Town of Newtown POTW				
Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum Daily Limit	Maximum Instantaneous Limit
Copper, Total	mg/l	0.54	0.73	1.09
Lead, Total	mg/l	0.03	0.06	0.09

Table VI : Town of Plainfield (Village)				
Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum DailyLimit	Maximum Instantaneous Limit
Copper, Total	mg/l	0.54	0.73	1.09
Silver, Total	mg/l	0.05	0.07	0.105

Table VIII : City of Waterbury				
Pollutants				
Pollutant	Unit	Average Monthly Limit	Maximum Daily Limit	Maximum Instantaneous Limit
Copper, Total	mg/l	0.54	0.73	1.09
Nickel, Total	mg/l	0.63	0.85	1.28
Zinc, Total	mg/l	0.47	0.72	1.08