



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
WATER PERMITTING AND ENFORCEMENT DIVISION
860-424-3018

General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer

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General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer

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General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer

Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the 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 General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. As used in this general permit, the following definitions shall apply:

“Aquifer Protection Areas” are areas that contribute water to public water supply wells as defined in section 22a-354h(10) of the General Statutes.

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

“Base Neutral and Acid Extractable Compounds” (BNAs) means compounds detected as Semivolatile Organic Compounds using analytical methods approved per 40 CFR 136, and compounds listed as BNAs in Appendix A of this general permit.

“Best Management Practices” (BMP) means a practice, procedure, structure or facility designed to prevent or minimize environmental damage, or to maintain or enhance environmental quality. BMPs may include treatment requirements, operating procedures, practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage, practices to provide necessary streamflow in surface waters and minimize or avoid adverse impacts to adjacent wells, fish and wildlife.

“Chlorinated Volatile Organic Compounds” means volatile organic compounds (VOCs) that have chlorine substituted at location or locations otherwise occupied by hydrogen, including Carbon Tetrachloride; 1,2 (or o)-Dichlorobenzene (o-DCB); 1,3 (or m)-Dichlorobenzene (m-DCB); 1,4 (or p)-Dichlorobenzene (p-DCB); 1,1-Dichloroethane (DCA); 1,2-Dichloroethane; 1,1-Dichloroethylene (DCE); cis-1,2-Dichloroethylene; Dichloromethane (DCM); Tetrachloroethylene (PCE); 1,1,1-Trichloroethane (TCA); 1,1,2 Trichloroethane; Trichloroethylene (TCE); and Vinyl Chloride.

“Coastal Boundary” shall be as defined in section 22a-94(b) of the General Statutes.

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

“Day” 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.

“Department” means the department of environmental protection.

“*Endangered Species Area*” means any area designated on maps produced by the DEP, entitled, “State and Federal Listed Species and Natural Communities.”

“*Groundwater Remediation Wastewater*” means wastewater generated in connection with investigating pollution or remediating polluted groundwater or soil. Groundwater remediation wastewater includes without limitation groundwater withdrawn from a groundwater recovery well; groundwater which collects in an excavation or foundation drain or other subsurface facility or structure; groundwater contaminated runoff and stormwater impacted by on-site pollutants from any construction activity; condensate resulting from construction or maintenance of a soil vapor extraction system; washdown or backwash wastewater from treatment facilities; well development wastewater, and wastewater generated by removing an underground tank used at any time for storage of petroleum or petroleum products or by developing, testing, sampling, or purging a well, or by maintaining treatment facilities.

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

“*Liquid*” means flowing freely like water, characterized by free movement of constituent molecules among themselves, without the tendency to separate.

“*Municipality*” means a city, town or borough of the state.

“*Oil or Petroleum*” means oil or petroleum of any kind in liquid form including but not limited to waste oils and distillation products such as fuel oil, kerosene, naphtha, gasoline and benzene.

“*Oxygenates*” means fuel additives (alcohols and ethers) that contain oxygen which can boost gasoline’s octane quality, enhance combustion, and reduce exhaust emissions.

“*Permittee*” means any person who or municipality which initiates, creates, originates or maintains a discharge in accordance with Section 3 of this general permit.

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

“*Phenols*” means compounds detected as “phenols” using analytical methods approved per 40 CFR 136, and including compounds identified as phenols in Appendix A of this general permit.

“*Phthalate Esters*” means those compounds detected as “phthalate esters” using analytical methods approved per 40 CFR 136, and including compounds identified as phthalate esters in Appendix A of this general permit.

“*Polynuclear Aromatic Hydrocarbons*” (PAHs) means compounds detected as “polynuclear aromatic hydrocarbons” using analytical methods approved per 40 CFR 136, and including compounds identified as PAHs in Appendix A of this general permit.

"POTW Authority" means the chairperson or duly authorized representative of the Water Pollution Control Authority which owns or operates a Publicly Owned Treatment Works (POTW).

"Recovery Well" means a well used for pumping contaminated groundwater.

"Registrant" means a person who or municipality which submits a registration in accordance with Section 4 of this general permit.

"Registration" means a completed registration form and registration fee submitted to the commissioner pursuant to Section 4 of this general permit.

"Remote Site" means a property, on which a groundwater remediation system is installed, but no other activity is performed and the property is otherwise abandoned.

"Screening Analysis" means the analysis performed prior to submittal of the general permit registration form and at regular intervals thereafter in accordance with Section 4 of this general permit.

"Site" means geographically contiguous land 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.

"Tentatively Identified Compounds" means compounds detected in samples that are not target compounds, internal standards, system monitoring compounds or surrogates.

"Tidal Wetlands" shall be as defined in section 22a-29(2) of the General Statutes.

"Volatile Organic Compounds" (VOCs) means compounds detected as "volatile organics" using analytical methods approved per 40 CFR 136.

"Well development wastewater" means wastewater generated by the pumping of water production wells to enhance yields through the removal of scale and other fine materials from the sides of the wells.

"Well purging wastewater" means wastewater generated by the removal of standing waters from a well to encourage the inflow of surrounding groundwaters.

Section 3. Authorization Under this General Permit

(a) Eligible Activities

Provided the requirements of Section 3(b) of this general permit are satisfied, this general permit authorizes:

Only discharges comprised solely of groundwater remediation wastewater.

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

(b) *Requirements for Authorization*

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

(1) Registration

For all discharges, a completed registration with respect to such activity has been has been filed with the commissioner in accordance with the provisions of Section 5 of this general permit.

(2) The discharge is *not* authorized by a valid individual permit issued under section 22a-430 of the General Statutes.

(3) The discharge is to a Publicly Owned Treatment Works (POTW).

(4) The POTW Authority receiving the discharge has approved the discharge in writing.

(5) The maximum daily flow of all discharges of groundwater remediation wastewater generated by a permittee on one site does not exceed five percent (5%) of the design capacity of the POTW which receives the discharge.

(6) A screening analysis has been performed in accordance with Section 4 of this general permit. The results of such analysis have been submitted to the POTW Authority on a Screening Form prescribed and provided by the commissioner.

(7) Any chemical additives used to treat groundwater remediation wastewater have been approved in writing by the Department and the POTW if such additives contain any substances in Appendix B, Tables II, III, and V, and Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies.

(8) Any site generating a discharge of greater than 50,000 gallons per day has in effect a valid permit issued by the commissioner pursuant to sections 22a-6 and 22a-378a of the General Statutes.

(9) No categorical effluent limitation standard or guideline adopted by the U.S. Environmental Protection Agency under the federal Clean Water Act is applicable to the discharge.

(10) Coastal Area Management

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

(11) Endangered and Threatened Species

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

(12) Aquifer Protection

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

(13) Stream Channel Encroachment

Such activity shall not create an obstruction or hindrance riverward of Stream Channel Encroachment Lines that will have an adverse effect on the flood heights, flood carrying and water capacity of the waterways and floodplains.

(14) Flood Management

Such activity shall be consistent with all applicable standards and criteria established in sections 25-68d(b) of the General Statutes and sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies.

(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 ten (10) years from such date of issuance.

(e) *Effective Date of Authorization*

- (1) For those persons and municipalities required to submit a registration under Section 5 of this general permit, the effective date of authorization under this general permit is the date a registration which meets the requirements of Section 5 of this general permit is received by the commissioner.
- (2) For those persons and municipalities *not* required to submit a registration under Section 5 of this general permit, the effective date of authorization under this general permit is the date the general permit becomes effective, or the date the activity is initiated, whichever is later.

(f) *Revocation 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 revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity by this general permit.

(g) *Issuance of an Individual Permit*

If the commissioner issues an individual permit authorizing an activity authorized by this general permit, this general permit shall cease to authorize that activity beginning on the date such individual permit is issued.

Section 4. Screening Requirements

(a) *Screening Analysis*

Prior to initiating a discharge in accordance with this general permit, the water to be discharged must be tested in its raw state ("screening analysis"), in accordance with the following procedures:

- (1) For *all* discharges, raw water shall be analyzed for the following parameters:
 - Volatile Organic Compounds. In addition, the registrant shall report the 5 most prevalent tentatively identified compounds (TICs) detectable by these methodologies if such compounds are known or should reasonably be known to have been used, stored, released or disposed of on-site. Total Petroleum Hydrocarbons.
 - Gasoline Oxygenates, including TBA, MTBE, TAME, and related compounds known to be used in the gasoline released.
 - Total Lead (as detected by methods approved pursuant to 40 CFR 136).
- (2) For any discharge from a site at which the person creating, originating or maintaining a discharge knows or should reasonably know that any pollutant listed in Appendix B, Tables II, III, IV and V, or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies, has been used, stored, released, or disposed of, a screening analysis for these pollutants shall be conducted.
- (3) If the person creating, originating or maintaining a discharge knows or should reasonably know that any other pollutant has been used, stored, released, or disposed of, which pollutant could be toxic, hazardous or detrimental to the operation of the sewage treatment facility, or that such pollutant may pass through the sewage treatment facility or be detrimental to sludge handling, a screening analysis shall be conducted for such pollutant.

(b) *Subsequent Screening Analysis*

After initiating a discharge in accordance with this general permit, the water discharged must be tested in its raw state (“screening analysis”), in accordance with the following procedures:

- (1) The screening analysis shall be conducted as specified in Section 6(a)(1)(A) of this general permit.
- (2) The raw water shall be analyzed for:
 - Volatile Organic Compounds. In addition, the registrant shall report the 5 most prevalent tentatively identified compounds (TICs) detectable by these methodologies if such compounds are known or should reasonably be known to have been used, stored, released or disposed of on-site.
 - Any parameter required pursuant to Section 4(a)(2) or 4(a)(3) of this general permit.

(c) *Screening Procedures*

- (1) All samples taken for the purpose of the screening analysis shall be (a) representative of the quality of water to be discharged, (b) grab samples, and (c) collected, preserved, handled and analyzed in accordance with Title 40 Part 136 of the Code of Federal Regulations (40 CFR 136).
- (2) Waters that result from well construction, well development water, and water that results from sampling programs shall be retained until the screening analysis is performed. These collected waters shall then be discharged through a treatment system if required pursuant to Section 6 of this general permit. Otherwise, such wastewaters shall be collected and disposed of off-site at an appropriate disposal facility by a licensed waste transporter.
- (3) A screening analysis shall be performed as a registration requirement and as specified in Section 6(a)(1)(A) of this general permit from the effective date of authorization and documented on a Screening Form prescribed and provided by the commissioner. The Screening Form shall be submitted to the commissioner **only** (a) at the time a registration is initially submitted, or (b) if the parameters to be monitored are different than the parameters that were monitored the previous year, or (c) if screening results indicate the need to continue monitoring as specified in Section 4(c)(4) of this general permit. Otherwise, the Screening Form shall be retained on-site, or be readily accessible by the permittee, along with copies of the laboratory results, in accordance with Section 6(d) of this general permit.
- (4) Each time a screening analysis is performed, any parameter that exceeds effluent limitations listed in Appendix A of this general permit shall be recorded on the Screening Form and the water to be discharged shall be monitored thereafter for such parameters in accordance with Section 6 of this general permit. Treatment shall be required as specified in Section 6 of this general

permit for any such pollutant if, (a) for any one sample the concentration exceeds three times the listed effluent limitation, or (b) compliance with limitations is not indicated in each of three consecutive sampling events following an exceedance.

Section 5. Registration Requirements

(a) Who Must Submit a Registration

- (1) Any person who or municipality which intends, in accordance with this general permit to initiate, create, originate or maintain a discharge of groundwater remediation wastewater to a POTW shall file with the commissioner:
 - (i) A registration form which meets the requirements of Section 5 of this general permit and
 - (ii) The applicable fee.

If the source or activity generating the discharge for which a registration is submitted under this general permit is owned by one person or municipality but is leased or in some other way the legal responsibility of another person or municipality (the operator), it is the operator's responsibility to submit the registration required by this general permit.

- (2) Any person who or municipality which has previously registered under the General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer issued by the commissioner on August 13, 1996 shall file a renewal registration on or before 60 days following the reissuance of this general permit, except for facilities who have submitted a registration after January 1, 2006. Any person or municipality who have submitted a registration after January 1, 2006 need not file a new registration, re-register, or pay any additional permitting fee. Such facility may continue to operate under the terms and conditions of this general permit.

(b) Scope of Registration

A registration shall only include discharges of groundwater remediation wastewater from a single site. All discharges of groundwater remediation wastewater occurring simultaneously at a single site shall be included in the same registration.

(c) Contents of Registration

- (1) Fees
 - (A) A registration fee of \$500.00 shall be submitted for each new registration form or modification of an existing general permit registration. Pursuant to section 22a-430-6(m)(1) of the Regulations of Connecticut State Agencies and section 22a-6(b) of the General Statutes, the fee submitted by any municipalities shall be \$250.00. Pursuant to section 22a-430-6(l) of the Regulations of Connecticut State Agencies there shall be no fee for any registration submitted for a site used solely as a single-family residence.

(B) The registration fee shall be paid by certified check or money order payable to the “Department of Environmental Protection”.

(C) The registration fee is nonrefundable.

(2) Registration Form

The registration information shall be submitted on forms prescribed and provided by the commissioner and shall include, without limitation, the following:

A) Legal name, address, and telephone number of the person or municipality which wishes to initiate, create, originate or maintain the discharge and of the person who or municipality which owns the activity or source generating the discharge. If any such person(s) is an entity transacting business in Connecticut, include 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 discharge is proposed to take place.

(C) Legal name, address, and telephone number of the registrant's attorney or other representative, if any.

(D) Legal name, address, and telephone number of any consultant retained to design the proposed remedial actions on the site.

(E) Location address of the site for which the registration is submitted.

(F) Identification of whether the site location is in the coastal boundary, or in an endangered species area or in a tidal wetland area or in an aquifer protection area.

(G) An indication of whether there are any public or private drinking water wells within 1/4 mile of the site.

(H) An indication of whether treatment will include air stripping.

(I) Maximum daily flow and number of hours per day of the discharge.

(J) An estimate of when the discharge will begin and the estimated duration of the discharge authorized by this general permit.

(K) A detailed description of the type of contamination being remediated, and the likely source of such contamination.

(L) A detailed description of the activity generating the discharge (i.e. site dewatering, pump test, groundwater recovery well).

- (M) The groundwater classification of the site, and the name, and location of the POTW which will receive the discharge.
- (N) A detailed description of the type of treatment system, if any, installed to treat each discharge.
- (O) A plan of the site (“site plan”) showing at least the boundaries of the site, the exact location of all existing and proposed recovery, soil venting and drinking water wells on the site, the location of discharges authorized by this general permit, the monitoring locations, the treatment system, if any, and the location of wetlands and watercourses as defined by sections 22a-28 and 22a-38 of the General Statutes.
- (P) An 8 ½” by 11” copy of applicable sections of a United States Geological Survey (USGS) quadrangle map, with a scale of 1:24,000, showing the exact location of each groundwater treatment system, specifying the longitude and latitude of the discharges to within the closest 15 seconds, the location of any drinking water wells within a quarter mile of the site and including the name of the USGS map.
- (Q) The results of the screening analysis performed in accordance with Section 4 of this general permit. Results shall be submitted on a Screening Form prescribed and provided by the commissioner.
- (R) On a form prescribed and provided by the commissioner, an approval by the POTW Authority receiving the discharge for connection to the POTW.
- (S) For any discharge, the following certification, signed by a professional engineer, licensed to practice in Connecticut, a certified hazardous materials manager, or a licensed environmental professional:

“I certify that in my professional judgment, proper operation and maintenance of any system installed to treat the discharges which are the subject of this registration will ensure that all effluent limitations and other conditions in the *General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer* will be met. This certification is based in part on my review of the information contained in the Screening Form completed for the discharges and attached to this registration and, if applicable, a review of the historic land use of the site, and on any other water analyses associated with the discharges, and on engineering and/or hydrogeologic reports and/or plans and specifications describing (1) the proposed activities and (2) any proposed treatment facilities for the wastewater to be discharged. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.”

- (T) The signature of the registrant and of the individual or individuals responsible for actually preparing the registration, 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 a copy of this registration has been submitted to the applicable POTW Authority and written approval from the receiving POTW has been received. 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 certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of their text. 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.”

(d) *Where to File a Registration*

- (1) A registration shall be filed with the commissioner at the following address:

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

- (2) For any discharge of groundwater remediation wastewater to a POTW, a certified copy of the completed registration form including all screening documentation shall also be sent to the POTW authority which will receive the discharge.
- (3) One additional copy of the completed registration form shall be submitted along with the original at the address specified in paragraph (1) of this subsection, for each of the following conditions:
- (A) For any discharge of groundwater remediation wastewater where drinking water wells exist within one-quarter mile of the proposed site;
- (B) For any discharge of groundwater remediation wastewater where air stripping is used as a wastewater treatment.

(e) *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.

(f) Action by Commissioner

- (1) The commissioner may reject without prejudice a registration if it is determined that it does not satisfy the requirements of Section 5(c) of this general permit or more than thirty days (30) have elapsed since the commissioner requested that the registrant submit additional information or the required fee and the registrant has not submitted such information or fee. Any registration refiled after such a rejection shall be accompanied by the fee specified in Section 5(c)(1) of this general permit.
- (2) The commissioner may disapprove a registration if it is found that the subject activity is inconsistent with the requirements for authorization under Section 3 of this general permit, or for any other reason provided by law.
- (3) Disapproval of a 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) Rejection or disapproval of a registration shall be in writing.

Section 6. Conditions of This General Permit

(a) Monitoring and Treatment Requirements

- (1) All discharges shall be monitored and treated in accordance with the following:
 - (A) For all discharges with a maximum daily flow exceeding 5,000 gallons per day, the permittee shall, on a semiannual basis, perform a screening analysis as outlined in Section 4 of this general permit. For discharges with a maximum daily flow less than 5,000 gallons per day, the permittee shall, on an annual basis, perform a screening analysis as outlined in Section 4 of this general permit.
 - (B) The permittee shall monitor the discharges for the presence of Volatile Organic Compounds (VOCs) if, (1) any screening analysis detects the presence of VOCs at a concentration exceeding 10 % of the limit specified in this general permit, or (2) the source of pollution being remediated includes gasoline and/or chlorinated solvents, or (3) there is reason to believe that site activities will result in the discharge of VOCs at a concentration exceeding 10 % of the limit specified in this general permit. To determine treatment requirements for VOCs, the permittee shall add the individual concentrations of all compounds detected in any single sample analyzed using these methods. If the sum of chlorinated VOCs exceeds 1.0 mg/l, or the total of all VOCs exceeds 5.0 mg/l, the permittee shall treat the discharges for the removal of VOCs using either:
 - (i) An air stripping system utilizing an air stripping tower equipped with an electrically operated automatic shut-off which disconnects power to the well pump whenever the air blower is not operating; or

- (ii) A treatment system using activated carbon filtration designed to consistently treat the groundwater to levels below the levels described above.
 - (C) The permittee shall monitor and treat the discharges for the removal of petroleum if: (1) the results of any analysis of the discharges indicates that petroleum hydrocarbons are present in the groundwater above 100 mg/l; or (2) oil or an oily sheen is visible in the water to be discharged; or (3) the source of the contamination being remediated is petroleum oil. The discharger shall treat the discharges for the removal of oil using either:
 - (i) Gravity separation (including lamella plate systems);
 - (ii) Oil absorbents;
 - (iii) Ultrafiltration or other comparable filtration technology, or
 - (iv) Any combination of the above technologies necessary to maintain total petroleum hydrocarbon concentrations below 100 mg/l in the discharges at all times.
 - (D) The permittee shall monitor the discharges for total lead: if (1) any analysis indicates that lead is present in the groundwater at concentrations greater than 0.1 mg/l; or (2) the site has been historically or presently used as a vehicle service operation; or (3) the source of the contamination being remediated is gasoline. For any site where lead concentrations in the discharges exceeds 0.1 mg/l, the permittee shall treat the discharges for removal of lead to below 0.1 mg/l.
 - (E) The permittee shall monitor and treat the discharges for any other pollutant in accordance with this section, if the screening analysis performed in accordance with Section 4(b) of this general permit identifies the presence of any pollutant in the groundwater at levels above either: (a) any effluent limitations listed in the municipal sewer ordinance of the receiving POTW; or (b) the limitations listed in Attachment A of this general permit. Treatment of the discharges for removal of any such pollutant to a level below the effluent limitation listed in Appendix A of this general permit shall be performed prior to discharge.
- (2) Monitoring Location
- (A) Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at a monitoring point before the effluent joins or is diluted by any other wastestream, or substance.
 - (B) For any site with more than one discharge point to the sanitary sewer, individual samples shall be collected from each discharge. Samples shall be designated as DSN 201, DSN 202, etc.

(3) Monitoring to verify compliance with the effluent limitations in this section and Appendix A of this general permit shall be performed according to the following schedule:

(A) For each initiation or restart of a discharge after an exceedance of an effluent limitation, the discharge shall be sampled on the first day of discharge and then every other day for the first two weeks, weekly for the next month, and then as follows depending upon the maximum daily flow:

<i>Maximum Daily Flow</i> (gallons per day)	<i>Monitoring Frequency</i>
Less than 5,000	quarterly
5,000 or more	monthly

(B) For each restart of a discharge for any reason other than an exceedance of a parameter limit, the discharge shall be sampled on the first day of discharge and then in accordance with the sampling schedule at the time the discharge was ceased.

(C) For intermittent discharges of groundwater remediation wastewaters, generated from scheduled activities, conducted at sites that have no other discharges of such wastewaters, the following monitoring shall be required:

- (i) A minimum of one representative sample shall be collected per discharge event and analyzed in accordance with Section 6(a)(4) of this general permit;
- (ii) If multiple points are sampled independently, a volume-proportioned average of analytical results may be substituted for a single sample;
- (iii) Treatment and discharge shall be conducted as described for screening waters in Section 4(c)(2) of this general permit.

(4) Samples taken for purposes of determining compliance with all effluent limitations and monitoring requirements listed in this general permit shall be grab samples. All sample analyses which are required by this general permit and all reporting of such analyses, shall be done by a laboratory certified by the Connecticut Department of Public Health. Chemical analysis shall be performed using methods approved in accordance with 40 CFR 136 which are capable of achieving limits of detection below the level established as an effluent limitation in Section 6(b) and Appendix A of this general permit.

(5) All discharges of greater than 5000 gallons per day, shall have a flow meter installed capable of recording total daily flow. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements is consistent with

the accepted capability of that type of device. All other discharges shall implement flow-measuring procedures to adequately estimate flows.

- (6) The permittee shall periodically calibrate and perform maintenance on all monitoring and field equipment used to monitor the pollutants discharged under this general permit, at intervals that will ensure the accuracy of measurements.

(b) *Effluent Limitations*

- (1) The effluent limitations specified in Appendix A shall not be exceeded at any time as determined by a grab sample.
- (2) The pH of the discharges shall not be less than 5.0 nor greater than 10.0 standard units at any time.

(c) *Pollution Prevention/Best Management Practices*

- (1) Solid waste, including but not limited to contaminated soils or sludges, may be generated as a result of the remediation activity allowed by this general permit. All waste generated must be disposed of in accordance with applicable federal, state and local law. Some or all of these wastes may be hazardous waste identified in accordance with Section 3001 of the Federal Resource Conservation and Recovery Act of 1976 (42 USC 6901 et seq.) or other wastes of special concern requiring Department approval prior to disposal. It is the responsibility of the permittee to ensure that all wastes generated are properly identified and that all necessary Department approvals are secured prior to disposal of the wastes. For further information regarding solid waste management, please contact the Waste Engineering and Enforcement Division of the Department of Environmental Protection at 860-424-3023.
- (2) Erosion and sediment controls shall be utilized at the site when necessary to prevent discoloration or sedimentation of surface waters as the result of any activity at the site associated with this general permit. Erosion and sedimentation controls may consist of the diversion of run-on, use of hay bales, silt fence, filtration or settling, and must comply at a minimum, with the standards set forth in the "Connecticut Guidelines for Soil Erosion and Sediment Control" as amended, which is available at the Maps and Publication Sales Office of the Department of Environmental Protection at 860-424-3555.
- (3) Air pollution, including but not limited to hazardous air pollutants, may be emitted as a result of the remediation activity allowed by this general permit. It is the responsibility of the permittee to ensure that all air pollution emitted is properly identified and quantified, and that all necessary Department approvals are secured prior to emitting such pollutants. All air pollution emitted must be analyzed to ensure compliance with all applicable federal, state and local laws including but not limited to sections 22a-174-1 (Definitions), 22a-174-3 (New Sources), and 22a-174-29 (Hazardous Air Pollutants) of the Regulations of Connecticut State Agencies and the National Emission Standards for Hazardous Air Pollutants (NESHAPs) in the Code of Federal Regulations (40 CFR Part

61). For further information, please contact the New Source Review Group, DEP, Bureau of Air Management at 860-424-3028.

- (4) No litter, debris, building materials, or similar materials shall be discharged to the waters of the state from the site.
- (5) The permittee shall conduct routine inspections of all equipment associated with the discharges authorized by this general permit. Inspections shall be conducted as necessary to insure proper operation of all equipment, but at intervals of no more than 7 days, unless the site is a remote site as defined in Section 2 of this general permit with a maximum daily flow of under 14,400 gallons per day. Remote sites with maximum daily flows of less than 14,400 gallons per day shall be inspected as necessary to insure proper operation of all equipment, but at intervals of no more than 30 days.

A log shall be maintained on-site documenting the date of inspection, inspector's name, verification of operation of critical equipment, and a summary of any work or change in equipment associated with the discharges authorized by this general permit.

(d) *Reporting and Record Keeping Requirements*

- (1) Except as provided below, or as otherwise specified by the commissioner, all analytical results from monitoring and other information required under this general permit shall not be required to be submitted to the commissioner but instead shall be retained on-site, or be readily available by the permittee as required by section 22a-430-3(j)(9)(B) of the Regulations of Connecticut State Agencies on a Discharge Monitoring Report Form prescribed and provided by the commissioner. Copies of all such forms shall be submitted to the receiving POTW if requested by an official of the POTW.
- (2) The permittee shall immediately cease the discharge and immediately notify the receiving POTW and the Department by phone as soon as the permittee knows or has reason to believe that the remediation discharge could be reasonably expected to cause adverse effects on the POTW operation. The permittee shall, within 7 days of becoming aware of such occurrence, submit written notification to the Department and to the POTW Authority if requested by the Authority.

Notification by phone shall be made to the Engineer of the Day at 860-424-3018.

Written notification shall be directed to:

WATER PERMITTING AND ENFORCEMENT DIVISION: DMR SECTION
BUREAU of MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

(e) ***Recording and Reporting Violations***

- (1) If any analytical results or monitoring data collected under this general permit indicate that a violation of an effluent limitation or another condition of this general permit has occurred, the permittee shall immediately take all measures necessary to ensure that the discharge will comply with effluent limitations and conditions specified in this general permit. All violations shall be recorded on a Violation Form prescribed and provided by the commissioner. Such form shall, within twenty-four hours of knowledge of the violation, be completed and placed in a log which is maintained at the site, or is readily accessible by the permittee.
- (2) A copy of each Violation Form shall be submitted to the commissioner at the following address, within one week of the violation:

WATER PERMITTING AND ENFORCEMENT DIVISION: DMR SECTION
BUREAU of MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

- (3) Immediately after the third simultaneous or consecutive, or fourth annual violation, as applicable, the discharge shall be stopped and shall not be resumed until the permittee submits a report prepared by a professional engineer licensed to practice in Connecticut, a certified hazardous materials manager, or a licensed environmental professional. Such report shall describe actions which have been taken to prevent further violations of this general permit. The report shall contain the following certification signed by a professional engineer licensed to practice in Connecticut, a certified hazardous materials manager, or a licensed environmental professional:

“I certify that in my professional judgment that appropriate modifications and/or additions have been made to the system designed to treat the discharges of groundwater remediation wastewater at the site, and that all discharges of groundwater remediation wastewater at the site comply with all conditions of said permit, including but not limited to all effluent limitations in Sections 6(a) and 6(b) and Appendix A of the *General Permit for the Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer*, and proper operation and maintenance of any system installed to treat such discharges will insure that all effluent limitations and other conditions in such general permit are met, or if there is no treatment system for such discharges, that appropriate modifications have been made to the operations at the site and the discharges will meet all effluent limitations and conditions of such general permit without treatment. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.”

- (4) A copy of any report required to be submitted under this section, shall also be sent to the POTW which receives the discharges.

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

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:

(1) Section 22a-430-3:

Subsection (b) General - subparagraph (1)(D) and subdivisions (2), (3), (4) and (5)

Subsection (c) Inspection and Entry

Subsection (d) Effect of a Permit - subdivisions (1) and (4)

Subsection (e) Duty to Comply

Subsection (f) Proper Operation and Maintenance

Subsection (g) Sludge Disposal

Subsection (h) Duty to Mitigate

Subsection (i) Facility Modifications, Notification - subdivisions (1) and (4)

Subsection (j) Monitoring, Records and Reporting Requirements - subdivisions (1), (6), (7), (8), (9) and (11) (except subparagraphs (9)(A)(2), and (9)(C))

Subsection (k) Bypass

Subsection (m) Effluent Limitation Violations

Subsection (n) Enforcement

Subsection (o) Resource Conservation

Subsection (p) Spill Prevention and Control

Subsection (q) Instrumentation, Alarms, Flow Recorders

Subsection (r) Equalization

(2) Section 22a-430-4:

Subsection (t) - Prohibitions

Subsection (p) - Revocation, Denial, Modification

Appendices

Section 7. 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 and Report 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, prevent further such violation, and report in writing such violation and such corrective action in accordance with Section 6(e) of this general permit. Such report shall be certified in accordance with Section 7(d) of this general permit.

(c) *Duty to Provide Information*

If the commissioner requests any information pertinent to the authorized activity or to determine compliance with this general permit, the permittee shall provide such information in writing within thirty (30) days of such request. Such information shall be certified in accordance with Section 7(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 permittee 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 permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the commissioner. Such information shall be certified in accordance with Section 7(d) of this general permit.

(h) *Transfer of Authorization*

An authorization under this general permit is non transferrable .

(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 8. 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.

(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) ***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 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. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued Date: Februaury 15, 2008

GINA McCARTHY
Commissioner

This is a true and accurate copy of the general permit executed on February 15, 2008 by the Commissioner of the Department of Environmental Protection.

Appendix A: Toxic and Hazardous Pollutants and Their Maximum Concentrations

Volatile Organic Compounds:

Combined Total of Chlorinated Volatile Organic Compounds Shall Not Exceed 1.0 mg/l
Combined Total of All Volatile Organic Compounds Shall Not Exceed 5.0 mg/l
MTBE Shall Not Exceed 1.0 mg/l

Total Petroleum Hydrocarbons:

Total Petroleum Hydrocarbons Shall Not Exceed 100 mg/l

EPA Method 200.7 or other methods approved in accordance with 40 CFR 136 which are capable of achieving limits of detection below the levels established below

Metals	Maximum Concentration
Arsenic	0.1 mg/l
Barium	5.0 mg/l
Beryllium	2.0 mg/l
Boron	5.0 mg/l
Cadmium	0.1 mg/l
Chromium	1.0 mg/l
Hexavalent Chromium	0.1 mg/l
Cobalt	2.0 mg/l
Copper	1.0 mg/l
Lead	0.1 mg/l

Metals	Maximum Concentration
Magnesium	50 mg/l
Mercury	0.005 mg/l
Nickel	1.0 mg/l
Selenium	1.0 mg/l
Silver	0.1 mg/l
Thallium	1.0 mg/l
Tin	2.0 mg/l
Vanadium	1.0 mg/l
Zinc	1.0 mg/l

Base Neutral and Acid Extractables (BNA):

BNA's (Excludes Phenol and PAHs)	Maximum Concentration
Combined Total of All BNAs Excluding Phenols and PAHs Shall Not Exceed 2.0 mg/l	

Phenols:

Phenol	Maximum Concentration
2-sec-Butyl-4,6-dinitrophenol (DNBP)	Combined Total of All Phenols Shall Not Exceed 1.0 mg/l
4-Chloro-3-methylphenol	
2-Chlorophenol	
Cresols(methyl phenols)	
2-Cyclohexyl-4,6-dinitrophenol	
2,4-Dichlorophenol	
2,6-Dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2-Methyl-4,6-dinitrophenol	
2-Nitrophenol	
4-Nitrophenol	
Pentachlorophenol	
Phenol	
Tetrachlorophenols	
Trichlorophenols	
2,4,6-Trichlorophenol	

Polynuclear Aromatic Hydrocarbons (PAHs):

PAH	Maximum Concentration
Acenaphthene	<p>Combined Total of All PAHs Shall Not Exceed 0.5 mg/l</p>
Acenaphthylene	
Anthracene	
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(j)fluoranthene	
Benzo(k)fluoranthene	
Benzo(ghi)perylene	
Chrysene	
Dibenz(a,h)acridine	
Dibenz(a,j)acridine	
Dibenzo(a,h)anthracene	
H-Dibenzo(c,g)carbazole	
Dibenzo(a,e)pyrene	
Dibenzo(a,h)pyrene	
Dibenzo(a,i)pyrene	
Fluoranthene	
Fluorene	
Indeno(1,2,3-cd)pyrene	
3-Methylcholanthrene	
Naphthalene	
Phenanthrene	
Pyrene	

Organochlorine Pesticides:

Pesticide	Maximum Concentration (µg/l)
Aldrin	1.5 µg/l
Alpha-BHC	1.0 µg/l
Beta-BHC	1.0 µg/l
Delta-BHC	1.0 µg/l
Gamma-BHC (Lindane)	2.0 µg/l
Chlordane (technical)	20 µg/l
4,4'-DDD	0.2 µg/l
4,4'-DDE	0.2 µg/l
4,4'-DDT	0.2 µg/l
Dieldrin	10 µg/l
Endosulfan I	2.0 µg/l
Endosulfan II	2.0 µg/l
Endosulfan sulfate	2.0 µg/l
Endrin	1.0 µg/l
Endrin aldehyde	1.0 µg/l
Heptachlor	0.6 µg/l
Heptachlor epoxide	0.4 µg/l
Methoxychlor	360 µg/l
Toxaphene	10 µg/l

Phthalate Esters:

Phthalate Ester	Maximum Concentration
Benzyl butyl phthalate	Combined Total of All Phthalates Shall Not Exceed 2.0 mg/l
Bis(2-ethylhexyl)phthalate	
Di-n-butyl phthalate	
Diethyl phthalate	
Dimethyl phthalate	
Di-n-octyl phthalate	

PCBs:

PCB	Maximum Concentration
PCB-1016	<p style="text-align: center;">Combined Total of All PCBs Shall Not Exceed 1.0 µg/l</p>
PCB-1221	
PCB-1232	
PCB-1242	
PCB-1248	
PCB-1254	
PCB-1260	
OTHER PCB's	

If other PCBs have been used or stored on-site or there is reason to believe they may be present, each compound must be analyzed for in addition to the seven listed PCBs.

Chlorinated Herbicides:

Herbicide	Maximum Concentration
2,4,-D	<p style="text-align: center;">Combined Total of 2,4-D plus 2,4-DB Shall Not Exceed 700 µg/l</p>
2,4-DB	
2,4,5-T	10.0 µg/l
2,4,5-TP (Silvex)	10.0 µg/l
Dicamba	10.0 µg/l

Cyanide: EPA Method 335.1; 335.2

Cyanide	Maximum Concentration
Total Cyanide	0.6 mg/l
Amenable Cyanide	0.1 mg/l