**CPPU USE ONLY**

# Registration Form General Permit For In Situ Remediation: Chemical Oxidation

## Please complete this form in accordance with the [instructions](https://portal.ct.gov/-/media/DEEP/Permits_and_Licenses/LandUse_General_Permits/Remediation_General_Permits/RemISCOinstpdf.pdf) to ensure the proper handling of your registration. Send a copy of the permit registration form and the fee to DEEP, CPPU, 79 Elm St., Hartford, CT 06106-5127.  Upload the Electronic Transmittal Form and the permit registration form to the Connecticut [Secure File Transfer (SFT) website](https://sft.ct.gov).

## Part I: Registration Information:

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| A. This registration is for a (check all that apply):[ ]  *New* general permitregistration  [ ]  *Replacement* of an individual permit or an emergency or temporary authorization [ ]  new *ownership*[ ]  *Renewal* of an existing registration [ ]  *Modification* of an existing registration  | **DEEP REMEDIATION USE ONLY** |
| B. For renewals, modifications, replacements or new ownership:1. Existing permit number: 2. Facility ID number: 3. Existing expiration date:  | RemGIS RemID  |
| C. Dates for existing activity or proposed dates Start: **mm/dd/yyyy**  End: **mm/dd/yyyy** | D. City or Town where site is located:  |
| E. Brief Description of Project:  |

## Part II: Fee Information: The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection.

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| The Base Registration Fee is $500 There is no charge for modifications. **FEE ENCLOSED** $  | A 50% discount applies if the registrant is a municipality: [ ]  **Municipality Reduction Taken (CGS 22a-6(b))***Single family residence homeowners may request a waiver of the fee, even if they are not a registrant:*[ ]  **Single Family Residence Waiver\*** (Complete signature box below) |
| \*[ ]  I am the owner of a single family residence which is the location where the pollution that is to be remediated originates, and I request a fee waiver. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Homeowner’s Signature |

## Part III-A: Registrant Information

* ***\*****If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant’s name shall be stated* ***exactly*** *as it is registered with the Secretary of State. Please note: for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State’s database (*[*Business Records Search*](https://service.ct.gov/business/s/onlinebusinesssearch?language=en_US)*)***.**
* *If an registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*
* *If there are any changes or corrections to your company/facility or individual name, mailing or billing address, or contact information, please complete and submit the* *[Request to Change Company/Individual Information](https://portal.ct.gov/-/media/DEEP/Permits_and_Licenses/Common_Forms/infochangeCPPUdoc.doc) to the address indicated on the form. If there is a change in the name of the entity holding a DEEP license or a change in ownership, contact the office of Planning and Program Development (OPPD) at 860-424-3003. For any other changes you must contact the specific program from which you hold a current DEEP license.*

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| **1**. **Registrant**:  Mailing Address:  City/Town:  State: Zip Code:  Business Phone:  ext.:  Contact Person:  Phone:  ext.  E-Mail: a) Registrant Type (check one): [ ]  individual [ ]  federal agency [ ]  state agency [ ]  municipality [ ]  tribal [ ]  **\***business entity **(\***If a business entity complete i through iii)i) check type: [ ]  corporation [ ]  limited liability company [ ]  limited partnership [ ]  limited liability partnership [ ]  statutory trust [ ]  Other: ii) provide Secretary of the State business ID #: (Information accessible through the Secretary of the State database at [Business Records Search](https://service.ct.gov/business/s/onlinebusinesssearch?language=en_US).iii) [ ]  Check here if your business is **not** registered with the Secretary of State’s office. b) Registrant’s interest in property at which the proposed activity is to be located:[ ]  site owner [ ]  option holder [ ]  lessee [ ]  easement holder [ ]  operator[ ]  other (specify):  |
| [ ]  **Check if there are any co-registrants**. ***If so***, provide, for each such additional party, the information requested above. Space is provided on page 3 for the property owner and on page 4 for non-property-owners who are co-registrants. |
| **2. Billing contact, if different than the registrant:**Name: Mailing Address: City/Town:  State:  Zip Code: Business Phone:  ext. Contact Person:  Phone:  ext. Title: Email:  |

**Part III-B: Additional Party Information**

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| **1**. **Owner of** **primary parcel** where activity will occur, *if different than registrant*: [ ]  N/A: Same as registrant [ ]  **Check if primary parcel owner is a co-registrant**, and ensure registrant certification is included.Name: Mailing Address: City/Town:  State: Zip Code: Contact Person:  Title: Contact Phone:  ext.: Email:   Entity Type (check one): [ ]  individual [ ]  federal agency [ ]  state agency [ ]  municipality [ ]  tribal [ ]  **\***business entity **(\***If a business entity complete i through iii)i) check type: [ ]  corporation [ ]  limited liability company [ ]  limited partnership [ ]  limited liability partnership [ ]  statutory trust [ ]  Other: ii) provide Secretary of the State business ID #: (Information accessible through the Secretary of the State database a t[Business Records Search](https://service.ct.gov/business/s/onlinebusinesssearch?language=en_US). iii) [ ]  Check here if you are **not** registered with the Secretary of State’s office. |
| **If primary parcel owner is neither a registrant nor co-registrant**, describe how owner has granted permission and access. Access Summary:  |
| **2**. List the **primary technical contact** (professional employed or retained to assist in preparing the registration and/or to design or supervise the activity): [ ]  Same as registrantName:  [ ]  LEP [ ]  P.EFirm: License number:Mailing Address: City/Town:  State: Zip Code: Contact Person:  Title: Contact Phone:  ext.: Email:  Again, seems appropriateService Provided:  |
| **3**. In the space on the following page, identify other parties who DEEP should be aware of regarding this project, *other than owners of parcels in addition to the primary parcel*, which instead must be included in Table 1 (page 9).  |

| **Identification of Additional Parties***[Expandable text entry area for users of electronic form]* |
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## Part IV: Site Location and Additional Parcels

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| 1. Identify, for the **primary parcel** associated with the area of proposed activity: Name of site:  **Is this name of the site the same as the name of the registrant?** [ ]  Yes [ ]  No **Is this the site of origin for the pollution being remediated?** [ ]  Yes [ ]  NoStreet Address or Description of Location: City/Town:  State: **CT** Zip Code: Tax Assessor's Reference: Map:  Block:  Lot: Latitude and longitude of the center of the proposed activity (in degrees, minutes, and seconds or in decimal degrees): Latitude:  Longitude: Method of determination (check one):[ ]  GPS [ ]  USGS Map [ ]  CTECO [ ]  Other (specify):  |
| 2. Character of primary parcel (Check all that apply): [ ]  Retail/commercial [ ]  Industrial/manufacturing [ ]  Other nonresidential (specify below) [ ]  Single family residence [ ]  Up to four residential units [ ]  Other residentialExplanation:  |
| 3. Will the area of the proposed activity area or expected zone of influence extend beyond the boundary of the primary parcel identified above? [ ]  Yes [ ]  No If yes, Identify in Table 1 (on page 9) any other affected parcels and the owners of such other parcels, and indicate that you have obtained appropriate access permission. |

## Part V-A: Site Information- Site Setting

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| 1. Check all that apply to any parcel, in whole or in part, that includes an area of proposed activity or any part of the expected zone of influence (consult the instructions for additional information):A. [ ]  Is within the coastal area as defined in CGS section 22a-94 (a), [ ]  Is within the coastal boundary as delineated on DEEP approved coastal boundary maps.***If within the coastal boundary***, and this registration is for a new authorization or for a modification of an existing registration, you must submit a [*Coastal Consistency Review Form*](https://portal.ct.gov/-/media/DEEP/Permits_and_Licenses/Common_Forms/coastalreviewappdoc.doc)(DEEP-APP-004) with your registration as Attachment G.B. [ ]  Is located on federally recognized Indian lands. C. [ ]  Is subject to conservation or preservation restriction. ***If applicable***, proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment H.D. [ ]  Is located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map". Date of Map: **mm/dd/yyyy*****If applicable***, complete and submit a [*Request for NDDB State Listed Species Review Form*](https://portal.ct.gov/-/media/DEEP/NDDB/nddbapppdf.pdf)(DEEP-APP-007) to the address specified on the form. **Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant.**When submitting this registration, please include copies of any correspondence to and from the NDDB, including copies of the completed CT NDDB Review Request Form, as AttachmentI. [ ]  **None of the above apply to any parcel that is the subject of this registration**.  |
| 2. Check all that apply to any part of the area of proposed activity, including access and support activity, or any part of the expected zone of influence: [ ]  Is within 100 feet of any watercourse, coastal water, inland wetland, or tidal wetland.  [ ]  Is located within any identified floodplain. [ ]  **Neither of the above applies to any area that is the subject of this registration**.  |
| 3. Provide, for the nearest downgradient stream or surface water body: A. Name of stream or water body:  B. Distance (feet) from zone of influence:  C. Surface water quality goal, as identified in the Connecticut Water Quality Standards adopted pursuant to CGS section 22a-426:  [ ]  AA [ ]  A [ ]  B [ ]  C [ ]  D +[ ]  Coastal (S prefix) |
| 4. Is any part of the area of proposed activity, including the predicted zone of influence, located within 1 mile of any public water supply well? [ ]  Yes [ ]  No |

**Part V-B: Site Information- Regulatory Framework**

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| 1. *Identify any remedial program* *creating an obligation to conduct remediation*: A. Check all that apply to the primary parcel: List Associated DEEP ID numbers: [ ]  CGS 22a-133x or CGS 22a-133y  [ ]  CGS 22a-134a (Prop. Transfer)  [ ]  RCSA 22a-449(c)-105(h) (RCRA Corr. Act.)  [ ]  RCSA 22a-449(d)-(106) (UST Corr. Act.)  [ ]  Under a Pollution Abatement Order (CGS 22a-432)  [ ]  Brownfield program (specify)  [ ]  **None of the above apply to the primary parcel.** B. For any other parcels where the zone of influence is present: [ ]  N/A-No other parcels [ ]  Some of the above apply to a parcel other than the primary parcel. **If so, list on Table 1**.  [ ]  None of the above apply to any other parcel in the area of activity or zone of influence. |
| 2. For sites in a *remedial program, or under any active oversight by DEEP LUST program,* identify: A. [ ]  LEP lead [ ]  DEEP lead [ ]  Not determined [ ]  Not in a remedial program B. Name of supervising LEP:  License Number:  C. Name of DEEP project lead (if not LEP lead):  |
| 3. *Identify programs that may apply or impose regulatory requirements*: A Check all that apply to the primary parcel: List Associated ID numbers: [ ]  Regulated under RCRA Subtitle C / CGS 22a-449(c) (HW)  [ ]  Regulated under RCRA Subtitle D / CGS 22a-208a (SW)  [ ]  Registered with the DEEP Underground Tank Program  [ ]  Issued a Water Discharge Permit under CGS 22a-430  (excluding stormwater discharge permits) [ ]  **None of the above apply to the primary parcel.** B. For any other parcels where the zone of influence is present: [ ]  N/A-No other parcels [ ]  Some of the above apply to a parcel other than the primary parcel. **If so, list on Table 1.** [ ]  None of the above apply to any other parcel in the area of activity or zone of influence. |
| 4. *Other programs:* Identify any additional DEEP programs (not already noted above) or other governmental agencies that should be contacted when DEEP staff review this registration: |

**Part V-C: Site Information- Relation to Water Supplies**

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| 1. *Proximity to Public Water Supplies (PWS)*: Check all that apply for any part of the area of proposed activity or anticipated zone of influence:  [ ]  Within an aquifer protection area: [ ]  Level A [ ]  Level B  [ ]  Within a public water supply source water area:  [ ]  Surface Water Watershed [ ]  Groundwater Well Source Water Area [ ]  Upon water company owned land: Land Class: [ ]  1 [ ]  2 [ ]  3 If any apply, provide PWS ID number(s): **If any apply,** a duplicate or certified copy of the registration form *and the supporting documents* must be filed with the [Drinking Water Section of the Department of Public Health](https://portal.ct.gov/DPH/Drinking-Water/DWS/Contact-Information). [ ]  **Check here to certify that a copy was sent.**  [ ]  **None of the above apply to any part of the area of proposed activity or anticipated zone of influence**. |
| 2. Identify the groundwater quality goal(s), adopted in the Connecticut Water Quality Standards pursuant to CGS section 22a-426, for any part of the area of proposed activity or anticipated zone of influence: [ ]  GAA [ ]  GAAs [ ]  GA [ ]  GB [ ]  Other (specify):   |
| 3. *Proximity to water supply wells*: Check all that apply for any part of the area of proposed activity or anticipated zone of influence:  [ ]  Located within 1000 feet of a public water supply well.  [ ]  Within 200 feet of any water supply well pumping over 10 gallons per minute.  [ ]  Within 75 feet of any water supply well not owned by registrant or primary parcel owner.  [ ]  A water supply well owned by registrant or primary parcel owner is within 75 feet.  **If any apply**, a duplicate or certified copy of the registration form must be filed with the local director of health. [ ]  **Check here to certify that a copy was sent.** [ ]  **None of the above apply to area of proposed activity or anticipated zone of influence**. |
| 4. A. List in Table 2 on page 9 of this registration all public water supply wells within 1000 feet and all water supply wells within 500 feet of the proposed activity or anticipated zone of influence. Indicate if no wells were identified for listing: [ ]  No wells are identified. B. Identify how the list was developed, or basis for determining no wells were present:  [ ]  Well inventory conducted: Year:  [ ]  Other (explain below) Explanation:  |

**Part V-D: Site Information- Environmental Effect Mitigation (see instructions)**

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| **Identify potential adverse environmental effects of the proposed activity on the site setting and receptors identified above in parts V-A and V-C and how these effects will be prevented. Also describe how these effects, should they occur, will be identified and mitigated, with particular attention to, but not limited to, a discussion of protection of water supply wells.** |
| [ ]  Check here if continuation sheet is needed, and label and attach it to this sheet. |

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**Table 1**

**Listing of Additional Parcels that include any part of the proposed activity or zone of influence**

**(Consult instructions, and see questions IV.3, V-B.1.B and V-B.3.B)**

*[Expandable text entry area for users of electronic form]*

| Map/Block/Lot  | Address  | Owner | Phone | Character | Permission |
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**Table 2**

**Identified Water Supply Wells**

**(Consult instructions, and see question V-C.4)**

*[Expandable text entry area for users of electronic form]*

| Address | Contact Name | Phone | Well/System type | Distance from ZOI | Remarks |
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**Part VI-A: Detailed Information- Site and Pollution**

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| 1. *Sensitive Site Receptors*: Check all that apply **within 25 feet** of any part of the activity area or zone of influence; and explain in part VI-D how impact on identified receptors will be limited: [ ]  Leaching system present.  [ ]  Coastal water, tidal wetland, inland wetland or watercourse present. [ ]  Underground public utility present. [ ]  Subsurface stormwater collection or management system present. [ ]  Private utility or subsurface structure present. [ ]  Occupied basement present. [ ]  Structure present and volatile organic chemicals or gasoline present. [ ]  **None of the above are present within 25 feet of the area of activity or zone of influence.** |
| 2. *Pollution Presence*: Check all that apply: (provide discussion as needed in part VI-D)A. Evidence of a release that discharge is proposed to treat: [ ]  Quantitative [ ]  Qualitative [ ]  No evidence of release Identify nature of evidence: Identify mechanism for release: B. Nature of pollution that activity is proposed to treat: [ ]  Petroleum Fuel [ ]  Organic Solvent (specify)  [ ]  PAHs [ ]  Metals (specify)   [ ]  Other (specify) C. Nature and origin of Petroleum Fuel Pollution: [ ]  Not applicable; no petroleum fuel pollution  [ ]  Heating Oil [ ]  Other Petroleum Fuel (specify)  [ ]  Yes [ ]  No Release is associated with a tank system over 2,100 gallons in size.  [ ]  Yes [ ]  No Release is associated with a heating oil tank. D. Evaluation of Non-Aqueous Phase Liquids (NAPL): [ ]  Not applicable; no NAPL potential **Yes No** **Don’t Know or Not Applicable** (provide discussion of either in part VI-D)  [ ]  [ ]  [ ]  Presence of non-aqueous phase liquid (NAPL) has been evaluated. [ ]  [ ]  [ ]  NAPL likely is or was present at the location of the proposed activity.  Basis for answer: [ ]  ctRSR Cnap [ ]  over 1% soluability [ ]  product encountered [ ]  Other (specify)  [ ]  [ ]  [ ]  Removal actions have been implemented for any NAPL present. (Summarize actions and results achieved in part VI-D discussion) E. Contamination (non-natural) other than the target pollutant is present: [ ]  Yes [ ]  No  If yes, Identify nature: [ ]  Additional AOCs [ ]  Polluted Fill/Urban Soil [ ]  OtherDescribe:  |
| 3. *Hydrogeology*: Check all that apply: **Yes No Don’t Know or Not Applicable** (provide discussion of either in part VI-D) [ ]  [ ]  [ ]  Water table is less than 15 feet above the bedrock surface. [ ]  [ ]  [ ]  Aquifer permeability is determined: State range: [ ]  [ ]  [ ]  Flow velocity is determined: State horizontal flow velocity: [ ]  [ ]  [ ]  Activity is within the area of influence of a high-yield (10 gpm) well.  [ ]  [ ]  [ ]  Temporal flow variation exists: [ ]  seasonal [ ]  pumpage related [ ]  [ ]  [ ]  Significant vertical flow exists: State gradient ratio V:H : [ ]  [ ]  [ ]  Preferential flow pathways have been identified. [ ]  [ ]  [ ]  Aquifer heterogeneity was evaluated and considered in remediation design.Explanations:  |
| 4. *Hydrogeochemistry*: Check all that apply: **Yes No Don’t Know or Not Applicable** (provide discussion of either in part VI-D) [ ]  [ ]  [ ]  Groundwater contains more than 10,000 mg/l petroleum or over 100 ppm VOCs. [ ]  [ ]  [ ]  Vertical contaminant distribution is known and considered in remedial design. [ ]  [ ]  [ ]  Groundwater/aquifer chemistry has been considered in design dosage. [ ]  [ ]  [ ]  Potential interactions with/mobilization of aquifer matrix may occur. [ ]  [ ]  [ ]  Potential interactions with other pollutants present may occur. [ ]  [ ]  [ ]  Intermediate or by-products may be generated. [ ]  [ ]  [ ]  End, intermediate, or by-products may have environmental effects.Explanations:  |
| 5. *Zone of Influence (ZOI)*: A. Dimensions of composite ZOI (ft.):  Length  Width  Thickness B. Describe how the zone of influence depicted on the site map was determined: |

**Part VI-B: Detailed Information- Activity Proposed**

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| 1. *Objective and Scope*: Check all that apply:  A. Identify the general discharge objective: [ ]  Pilot Test [ ]  Source Control [ ]  Remediation [ ]  OtherExplain:  B. Identify the general nature of the technology proposed: [x]  *In situ* chemical Explain: C. Identify the target environmental media: [ ]  soil [ ]  groundwater [ ]  productD. Identify the performance objective:  |
| 2. *Primary Substance Discharged*: (list chemical amounts in question 4, and chemical details in Attachment F) A. Identify the primary substance(s):  B. Categorize the nature of the principal substance to be discharged for the proposed activity.  [x]  Chemical Oxidant\* (typically for chemical destruction of organic pollutants) \*Specify: [ ]  Metal Peroxide [ ]  Percarbonate [ ]  Other  [ ]  Hydrogen Peroxide [ ]  Permanganate [ ]  Persulfate [ ]  Ozone [ ]  Other/Composite: Explain:  |
| 3. *Additional Discharge Information*: (provide discussion as needed in part VI-D) A. Identify the nature of additional chemicals to be discharged (*list chemicals in question 4*) [ ]  Supplemental buffering chemicals.  [ ]  Surfactants [ ]  Activators [ ]  Other- Identify role:  B. Design/dosage based on [ ]  Bench Testing [ ]  Pilot Testing [ ]  OtherExplain:  C. Identify any residual that will remain in the subsurface after the discharge period:  |
| 4. *Substances and Dosage*  List ***all*** substances to be discharged, identify the reason/role for their use, provide the proposed total discharge amounts for each discrete discharge period or event, and identify the proposed concentrations if solutions are to be used. Include units of measurement. **Provide, in Attachment F, information about each substance to the extent required by the General Permit,** including for proprietary chemicals identification of all specific chemical constituents, and, as may required by the General Permit, Safety Data Sheets, evaluation of impurities and additives, and identification of appropriate monitoring parameters for the proposed use. |

| **Substance** | **Role** | **Total Amount** | **Concentration** |
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| 5. *Delivery mechanism:*  Identify how the substances will be introduced into the subsurface  A. Check all that apply:  [ ]  Emplacement in an open excavation resulting from removal of a tank or polluted soil. [ ]  Emplacement of removable devices. Identify:  [ ]  Injection or emplacement on or below the ground surface:  [ ]  Single use [ ]  Constructed [ ]  Existing wells [ ]  Other injection points multi-use points repurposed Describe:  [ ]  Alternative delivery mechanism/source. Identify: B. Injection specifics (per discharge period or Discharge Event):Total discharge Volume (gal.): Number of injection locations: Rate per point (range) (gpm):Expected pressure range (psi):C. Depth range of discharge: Below Surface:  Below Water Table:  |
| 6. *Other Considerations* (provide discussion in part VI-D):A. [ ]  Yes [ ]  No Activity will result in introduction of chemicals into or on bedrock, or within 2 feet of the bedrock surface.B. [ ]  Yes [ ]  No Injection pressures are above 30 psi, or are intended or likely to alter aquifer hydrogeologic properties.C. [ ]  Yes [ ]  No Hydraulic controls associated with site infrastructure passively establish the Zone of Influence.D. [ ]  Yes [ ]  No An active groundwater or soil vapor system is proposed to establish the Zone of Influence or limit the migration of vapors.E. [ ]  Yes [ ]  No Reinjection of treated or untreated water is proposed.F. [ ]  Yes [ ]  No Energy or surfactants will be used to mobilize pollutants for treatment.G. [ ]  Yes [ ]  No A groundwater or soil vapor remedial system is currently in operation at the site to protect receptors from exposure or control pollutant migration.H. [ ]  Yes [ ]  No More than 50,000 gal/day of water/solution will be managed.I. [ ]  Yes [ ]  No Recurring scheduled discharge periods or multiple Discharge Events are proposed.  Summarize any multiphase schedule:  |

**Part VI-C: Detailed Information- Monitoring Proposed**

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| 1. *Permit* *Compliance Monitoring:* A. Identify receptors to be monitored:[ ]  Water Supply [ ]  Surface Water [ ]  Storm and Sewer [ ]  Indoor Air Wells (public/private) Receptors Systems Pathway [ ]  Other Explain:  B. How many wells/points will be used to monitor the limits of the zone of influence?  C. How many wells/points will monitor chemical conditions within the zone of influence?  D. [ ]  Yes [ ]  No Field observations and field parameter monitoring are proposed. E. [ ]  Yes [ ]  No Verification of injected chemical analysis/concentrations is proposed. F. [ ]  Yes [ ]  No The monitoring plan proposes locations, parameters or a frequency that do not meet the minimum requirements in Section 5(b) of the General Permit. (Explain and provide justification in question 6). |
| 2. In the tables below, **summarize** the nature of the compliance monitoring program: |

| **Monitoring Well Location(s)** | **Objective(s)** | **Parameter Group(s)\*** | **Frequency\*** |
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| **Other Monitoring Sites(s)** | **Objective(s)** | **Parameter Group(s)\*** | **Frequency\*** |
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| **\*Parameter Group**  | **Constituents Analyzed**  | **Objective(s)** |
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| *Example A* field parameters | DO, DCO2, pH, ORP, Cond., Turbidity, Temp., Wtr Lvl | Real time results, map chemical effects |
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| **\*Frequency** | **During Active Discharge** | **Post-Discharge** |
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| 3. *Rebound:* Identify how the occurrence of rebound will be evaluated: |
| 4. *Other* *Monitoring Information:*  A. Summarize how monitoring frequency and duration take into account site groundwater flow conditions, discharge chemodynamics, receptor locations, and the activity timeline: B. Identify any changes in monitoring frequency (or parameters) associated with the shift from active injection to post injection monitoring, and the rationale for such modifications: C. Identify any indicator or surrogate parameters used and the rationale for their selection: D. Summarize any monitoring that incorporates approaches other than field or laboratory measurement of water samples from wells: |
| 5. *Other Monitoring Considerations:*  A. A. Describe how the pre-discharge baseline condition for monitoring comparisons has been or will be established prior to initiation of the discharge: B. Summarize any operational or process monitoring of the discharge that will be conducted: C. Identify any other periodic monitoring being conducted at the site that relates to the pollution being remediated or that may be affected by the discharge: D. Identify if any wells used for the discharge will later be used for compliance or verification monitoring, and how sample representativeness for the data objective will be evaluated: |
| 6. Identify any difference in the Monitoring Plan from the minimum monitoring requirements in Section 5(b) the General Permit and provide supporting justification: |

**Part VI-D: Detailed Information- On-site Adverse Outcome Mitigation**

**Describe how adverse outcomes associated with site conditions identified in Part VI-A and the specific**

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| **proposed activities identified in Part VI-B will be prevented or minimized by the proposed activity design and implementation, how monitoring identified in Part VI-C will allow adverse outcomes to be identified, and the contingencies for mitigation of adverse outcomes should any occur.****Also discuss any identified data gaps and how they are either not significant or will be addressed during implementation.** |
| [ ]  Check here if continuation sheet is needed, and label and attach it to this sheet. |

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**Part VII-A: Supporting Documents**

Identify, by checking the box, each specific lettered attachment being submitted with this registration form, and provide information regarding their content. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the registrant’s name as indicated on this registration form.

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| [ ]  Attachment A: An 8 1/2” X 11” copy of the relevant portion or a full-sized original of a USGS Quadrangle Map indicating the exact location of the facility or site, required nearby features and *Latitude and Longitude* (DEEP-APP-003). Indicate the quadrangle name on the map. [ ]  Attachment B: Site Conditions Report, including: **found on page(s):** Characterization and origin of release being treated  Description of previous remedial actions  Identification of relevant site conditions and history  Characterization of hydrogeology and water chemistry  Identification of receptor or transport pathways [ ]  Attachment C: Site Plan(s), including: [ ]  Cross section(s)  [ ]  Basic site boundaries [ ]  Location of significant site features  [ ]  Groundwater flow on maps & sections [ ]  Depiction of release, plume, & other AOCs  [ ]  Location of wells and other data points [ ]  Location(s) of proposed activity [ ]  Specific proposed discharge location(s) [ ]  Composite zone of influence  [ ]  Location(s) of receptors/pathways [ ]  Monitoring locations[ ]  Attachment D: Work Plan, including, but not limited to: **found on page(s):** Rationale for technology selection / remedial goal  Identification of all substances to be discharged  Reason needed/evaluation of substances identified in VI-B  Evaluation of byproducts produced / interaction with aquifer  Bench/pilot study results, or reason unnecessary  Calculation of chemical dosage and distribution  Description of discharge mechanisms  Chemical handling measures  Site safety measures  Contingency measures  Discussion of multiphase implementation approach [ ]  Attachment E: Monitoring Plan, including: **found on page(s):** Monitoring program objectives  Monitoring locations and frequencies, and rationale/objective  Monitoring constituents/parameters and rationale  Monitoring sampling and analytical methods  Data evaluation and reporting procedures [ ]  Attachment F: Specifications for substances to be discharged, as applicable.[ ]  Attachment G: *Coastal Consistency Review Form* (DEEP-APP-004), if applicable.[ ]  Attachment H: Conservation or Preservation restriction information, if applicable.[ ]  Attachment I: CT NDDB Information, if applicable, including *CT NDDB Request Form* (DEEP-APP-007). |

**Part VII-B: Technical Certification**

Certificationprepared by a Licensed Environmental Professional (LEP) or Professional Engineer (P.E.) as required in Section 4(c)(4)(B) of the General Permit.

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| “I certify that I have reviewed the: site conditions report, including the past and present uses of the site and fill history; site plan; work plan; and monitoring plan; and, if applicable, results of screening samples included with this registration and any other site characterization samples. I certify, based on such review and on my professional judgment, that any constituent of concern list includes all known non-petroleum potential pollutants present in the area of proposed activity or zone of influence and that the proposed activities are based on a site characterization that, for the area of interest, is consistent with prevailing standards and guidelines. I also certify that I have reviewed the proposed activities and, based on such review and on my professional judgment, I certify that the activity design, specifications, and implementation procedures are appropriate to remediate the pollution present at the area of the site where activity is proposed. I also certify that the oversight and monitoring provisions, and contingency measures, described in the work plan and/or monitoring plan, were developed to be substantially consistent with prevailing standards and guidelines, and the proposed activities are not expected to cause changes in groundwater or surface water quality beyond the designated zone of influence, are not expected to adversely affect any identified underground source of drinking water supply or water supply well, are not expected to create any explosion hazard or adversely affect indoor air quality in structures overlying the expected zone of influence, and are not expected to adversely affect any underground utilities, underground structures or leaching fields in the expected zone of influence. I also certify that, in my professional judgment, the proposed work plan and monitoring plan considered potential adverse effects that could reasonably be expected to impact the site, and provide a mechanism to address and mitigate such effects.” “I am aware that any professional services rendered pursuant to this general permit shall conform to the applicable rules of professional conduct of the Regulations of Connecticut State Agencies (for P.E.s section 20-300-12(a) and for LEPs section 22a-133v-6).I am also aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.” |
|  |  |  Affix seal here |
| Signature of Licensed Environmental Professional or Professional Engineer |
|  |  |
| Date |  |
|  |  |
| Name of Licensed Environmental Professional or Professional Engineer (print or type) |  |
|  |  |  |
| Title (if applicable) |  | License Number |

## Part VIII: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided. If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.

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| “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 certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the 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 Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.” “I certify that I have read the *General Permit for In Situ Remediation: Chemical Oxidation* issued by the Connecticut Commissioner of Energy and Environmental Protection; that the activities which are the subject of this registration are eligible for authorization under such permit; that if such activities commenced prior to the issuance of such permit, all applicable requirements of such permit are being met; and that a functioning and effective system is in place to assure that all such requirements are met so long as the activities which are the subject of this registration continue.”I understand that the subject activity is authorized only on or after the date the commissioner issues a written approval of registration or certificate of coverage with respect to such activity. |
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| Signature of Registrant | Date |
|  |  |  |
| Name of Registrant (print or type) | Title (if applicable) |
|  |  |  |
| Signature of Preparer (if different than above) | Date |
|  |  |  |
| Name of Preparer (print or type) | Title (if applicable) |
| [ ]  Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies after this sheet. You must include signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.). |

Please upload a completed [Electronic Document Transmittal Form](https://portal.ct.gov/-/media/DEEP/site_clean_up/sites/ElectronicDocumentTransmittalFormdocx.docx), the completed Registration Form and all Supporting Documents to the [Secure File Transfer (SFT) website](https://sft.ct.gov/) (<https://sft.ct.gov>).

Please submit a completed Registration Form and Fee to:

CENTRAL PERMIT PROCESSING UNIT

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

79 ELM STREET

HARTFORD, CT 06106-5127

*Space in electronic version of form to insert additional pages of certifications for Part VIII*