# DEEPLogoCIRCLEBoldtextaroundcircleDepartment of Energy & Environmental Protection

**Bureau of Water Protection and Land Reuse
Remediation Division**

**79 Elm Street, Hartford, CT 06106-5127
(860) 424-3705** [**www.ct.gov/deep/remediation**](http://www.ct.gov/deep/remediation)

FINAL VERIFICATION

Brownfield Remediation & Revitalization Program

**Connecticut General Statutes Section 32-769**

This verification must be signed by a Connecticut Licensed Environmental Professional

and the BRRP Eligible Party. Retain a copy for your records.

 (DEEP use only)

Ver#:

## Part I: Site Information

|  |
| --- |
| Property now or formerly known as:      Property Address:      City/Town:       State: CT Zip Code:      Described in the Tax Assessor’s Office in the town of:      as lot      , block       on map       Acreage of Property:       |

Part II: Verification

|  |
| --- |
| This verification pertains to the application to enter the Brownfield Remediation & Revitalization Program that was accepted by the Commissioner of the Department of Economic and Community Development, and assigned Rem#       by the Commissioner of Energy and Environmental Protection."I verify in accordance with Section 32-769(j)(5) of the Connecticut General Statutes and Section 22a-133v-1(z) of the Regulations of Connecticut State Agencies (RCSA), that an investigation has been performed within the boundaries of the above referenced property in accordance with prevailing standards and guidelines, and that the actions taken to contain, remove or mitigate the release(s) of regulated substances within the boundaries of such property are in accordance with the remediation standards(RCSA Sections 22a-133k-1 through 22a-133k-3).”(check if applicable)[ ] An environmental land use restriction (ELUR) has been executed and recorded in accordance with RCSA Section 22a-133q-1.LEP Seal |
|  |   |
| Signature of Licensed Environmental Professional License #:       |  |
|  |  |
|       |  |
| Name of Licensed Environmental Professional (print or type) |  |
| Phone Number:      e-mail:       |  |
| **Date of signature/verification**:  |  |

**Rem#:**

Part III: Standards for Soil Remediation

|  |  |
| --- | --- |
| [ ]  | The Remedial Action Report (RAR) documents and explains how the Soil Remediation Standards were achieved at each release area. |

*Check either #1 or #2 below to indicate the final assessment of release determination and investigation completed at the subject property for all potential releases.*

1. **Release Determination and Investigation**

**1**. [ ]  **Releases to Soil – No Remediation or other Compliance Measure Required**.

Substances were detected in soil within the property boundaries, but all detected concentrations of substances in soil were less than criteria before remediation or initiation of other compliance measure.

[ ]  The nature and distribution of all releases within the property boundaries have been characterized in accordance with prevailing standards and guidelines, including the SCGD (Phase III Investigation) or equal alternative approach.

Substances from an on-site release mechanism have impacted off-site soil prior to the Eligible Party taking title of the property,

[ ]  Yes, but remediation for the off-site soil does not apply to the BRRP Eligible Party.

 [ ]  No [ ]  Unknown

If #A.1 is checked, skip to [Part III. C [Application of Standards for Soil Remediation]](#IIIC) below.

**2**. [ ]  **Releases to Soil – Remediation or other Compliance Measure Required**

Substances in soil at the site exceeded criteria at any time, Complete the information in the box below.

|  |  |  |
| --- | --- | --- |
| **Criterion Exceeded** | **Category of COC** | **Compliance Measure** |
| [ ]  PMC | [ ]  | Non-chlorinated VOCs | [ ]  | In-situ |
|  | [ ]  GA | [ ]  | Chlorinated VOCs | [ ]  | Excavation / On-site Re-use |
|  | [ ]  GB | [ ]  | Metals | [ ]  | Excavation & Removal |
| [ ]  DEC | [ ]  | PAHs | [ ]  | Engineered Control |
|  | [ ]  Res | [ ]  | SVOCs | [ ]  | ELUR |
|  | [ ]  I / C | [ ]  | PCBs | [ ]  | RSR Exemption |
|  |  | [ ]  | Petroleum Hydrocarbons | [ ]  | Use of RSR Alternatives  |
|  | [ ]  | Pesticides / Herbicides | [ ]  | Use of 95% UCL |
|  |  |  | [ ]  | Other       |

**Rem#:**

1. **Compliance Measures**

**1. Excavation**

|  |  |  |
| --- | --- | --- |
| [ ]  | Remediation excavation of polluted soil was conducted to achieve compliance  | Applicable Release Area (RA) ID #’s |
| Remedial excavation discussed in Section      , page       in the RAR.  |
| [ ]  | Polluted soil meeting definition of **hazardous waste** per CGS 22a-449(c) was located on site and was treated, stored, disposed, and/or transported in conformance with RCRA section 22a-449(c)-101 through 110.  | 22a-133k-2(h)(1) |       |
| [ ]  | The Commissioner authorized the disposal of polluted soil as **special waste**, as defined in RCRA section 22a-209-1 | 22a-133k-2(h)(2) |       |
| Approval date(s):                   | 🡪Copy(s) of Approval(s) must be attached to RAR  |
| [ ]  | Polluted soil reused on-site | 22a-133k-2(h)(3) |       |
| Total volume excavated soil reused on site:       |
| [ ]  | Polluted soil reused off-site (Commissioner approval)Approval date(s):                   | 22a-133k-2(h)(3) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR  |
| Total volume of excavated soil removed from site:       |

**2. Engineered Control**

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  | Engineered Control of Polluted Soil (Commissioner approval and ELUR has been recorded) | 22a-133k-2(f)(2) | Applicable Release Area (RA) ID #’s |
|  | [ ]  | Use of Engineered Control for **DEC** | …(B)(i)(I) |       |
| Approval date(s):                   | 🡪Copy(s) of Approval(s) must be attached to RAR  |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:  |
|  | 🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR  |
| [ ]  | Use of Engineered Control for **PMC** | …(B)(i)(II) |       |
| Approval date(s):                   | 🡪Copy(s) of Approval(s) must be attached to RAR  |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:  |
|  | 🡪Copy of Certificate of Title page (w/ volume, page, and date recorded) must be attached to RAR  |
| [ ]  | Financial Surety (**Required for Commissioner-Approved EC or TI Variance**) |
| Type of Financial Surety Mechanism established:        |
| Date Financial Surety Mechanism information submitted to Commissioner:       |
|  | 🡪Copy of the Financial Surety Mechanism must be attached to RAR  |
| [ ]  | Financial Surety Mechanism was established for an EC covered under a previous verification.  |
| [ ]  | If yes, the financial surety mechanism has been confirmed to still be in place and remains valid. |
| Comments:       |

**Rem#:**

**3.** **In-Situ Remediation**

|  |  |  |
| --- | --- | --- |
| [ ]  | In-Situ remediation of polluted soil was conducted to achieve compliance  | Applicable Release Area (RA) ID #’s |
| [ ]  | Temporary Authorization |       |
| Approval date(s):                   | 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | General Permit |       |
| Approval date(s):                   | 🡪Copy(s) of Approval(s) must be attached to RAR  |
| Describe measures taken:      |

**4. Institutional / Administrative Compliance Measures**

|  |  |
| --- | --- |
| [ ]  | The use of any ELUR, RSR Exemption, RSR alternatives, or use of 95% UCL are indicated in the appropriate sections below, and described in detail in the RAR. |

**5. Other compliance measures**

|  |  |
| --- | --- |
| [ ]  | Describe measures taken:      |

**6. Public Notification of Remediation**

|  |  |
| --- | --- |
| [ ]  | Public notice of remediation was posted in accordance with the requirements of §32a-769(j)(4) and Section 22a-133k-1(d) of the RCSA. A copy of the PN, and discussion of any comments received are attached to the Verification Report. |

**C.** **Application of** **Standards for Soil Remediation**

*Complete Sections C. #1 through C. #7 below as applicable for this verification.*

|  |  |
| --- | --- |
| **1. Background concentration in soil**  | 22a-133k-2(a)(2) |
| [ ]  | Notice is required to be submitted to the Commissioner if background conditions are applicable at the project site. Checking this box may be considered such Notice. |
| Section 22a-133k-2(a)(2) of the RSRs provide prerequisites to demonstrate a background condition exists, and all must apply. |
| The use of Background is discussed in Section      , page       in the RAR. |

**Rem#:**

|  |  |
| --- | --- |
| **2. Direct Exposure Criteria (DEC)** 22a-133k-2(a)1(A) and k-2(b) | Applicable Release Area (RA) ID #’s |
| [ ]  | Polluted soils ≤ Residential DEC | 22a-133k-2(b)(1) |       |
| [ ]  | Polluted soils ≤ Industrial/Commercial (I/C) DEC (no PCBs and ELUR recorded) | 22a-133k-2(b)(2)(A) |       |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner: |
|  | *🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR*  |
| [ ]  | PCB polluted soil ≤ I/C DEC (electrical substation or other restricted access location and ELUR recorded) | 22a-133k-2(b)(2)(B) |       |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner: |
|  | *🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR*  |
| [ ]  | Additional Polluting Substance (Commissioner approval)Approval date(s):                   | 22a-133k-2(b)(5) |       |
| *🡪Copy(s) of Approval(s) must be attached to RAR*  |
| [ ]  | Alternative DEC (Commissioner approval)Approval date(s):                   | 22a-133k-2(d)(2) |       |
| *🡪Copy(s) of Approval(s) must be attached to RAR*  |
| [ ]  | Alternative DEC for PCBs (Commissioner approval)Approval date(s):                   | 22a-133k-2(d)(7) |       |
| *🡪Copy(s) of Approval(s) must be attached to RAR*  |
| [ ]  | **DEC not applicable** – Inaccessible Soil (per 22a-133k-1(a)(32))(polluted soil <15 ft bgs and ELUR has been recorded) | 22a-133k-2(b)(3) |       |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:  |
|  | *🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR*  |
| [ ]  | PCB polluted soil is inaccessible and remediated to the following: | 22a-133k-2(b)(3) |       |
|  | [ ]  | 10 ppm by weight (industrial criteria) |
| [ ]  | 25 ppm by weight (if located on parcel which is another restricted access location defined in 40 CFR 761.123) |
| [ ]  | 25 ppm by weight (if located at electrical substation defined in 40 CFR 761.123) |
| [ ]  | 50 ppm by weight (if located at electrical substation and area labeled/noticed per 40 CFR Part 761) |
| [ ]  | **DEC not applicable** – Incidental Sources  | 22a-133k-2(b)(4) |       |
|  | [ ]  | Incidental release due to normal operation of motor vehicles |
| [ ]  | A result of normal paving and maintenance of pavement |

**Rem#:**

|  |  |
| --- | --- |
| **3. Compliance with Direct Exposure Criteria**  22a-133k-2(e) | Applicable Release Area (RA) ID #’s |
| [ ]  | 95% UCL  | 22a-133k-2(e)(1)(A) |       |
| [ ]  | All analyses of samples from RA ≤ DEC | 22a-133k-2(e)(1)(B) |       |
| [ ]  | Matrix interference  | 22a-133k-2(e)(3)(B) |       |
|  | 🡪Detailed summary must be presented in RAR | 22a-133k-2(e)(3)(C) |

|  |  |
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| **4. Pollutant Mobility Criteria (PMC)** 22a-133k-2(a)1(B) and k-2(c) | Applicable Release Area (RA) ID #’s |
| [ ]  | Mass analyses of COCs other than inorganic or PCBs ≤ PMC  | 22a-133k-2(c)(1)(A) |       |
| [ ]  | TCLP/SPLP analyses of inorganic COCs or PCBs ≤ PMC  | 22a-133k-2(c)(1)(B) |       |
| [ ]  | TCLP/SPLP analyses of COCs in polluted soil at or above seasonal low water table ≤GWPC.  | 22a-133k-2(c)(2)(A) |       |
| [ ]  | TCLP/SPLP analysis of VOCs in polluted soil at or above seasonal low water table < 10x GWPC | 22a-133k-2(c)(2)(B)(GA Area) |       |
|  or |  |
| [ ]  | Mass analysis of soils polluted with VOCs in polluted soil at or above seasonal low water table < GA PMC x10 or alternative dilution factor (***All of the following must apply*↓**) |       |
|  | [ ]  | No NAPL present in RA, as determined pursuant to 22a-133k-2(c)(E)(3) |
| [ ]  | Water table is ≥15’ above bedrock surface, and |
| [ ]  | Downward vertical flow velocity ≤ horizontal flow velocity,  |
| **AND** either subset (B)(i) or (B)(ii) or (B)(iii) below (in their entirety) |
| B)(i) | [ ]  | Public water within 200’ of subject and adjacent parcels and any parcel within the areal extent of the RA plume (aa)  |
| [ ]  | Groundwater within plume not used for drinking (bb) |
| [ ]  | No supply wells exists within 500’ of RA, and (cc) |
| [ ]  | Not a potential public water supply resource (dd) |
| B)(ii) | [ ]  | Concentration of VOCs < GWPC within 75’ of nearest downgradient property boundary (aa) |
| [ ]  | Areal extent of plume and concentrations of VOCs not increasing over any point in time, except for seasonal variations and natural attenuation (bb) |
| [ ]  | Notice has been provided to Commissioner that requirements have been met (cc) |
| 🡪This Verification Form may be considered the Notice. Details must be documented and explained in the RAR. |
| (B)(iii) | [ ]  | Concentrations of VOCs< GWPC within 25’ downgradient of RA, and (aa) |
| [ ]  | Notice of such condition has been provided to Commissioner (bb) |
| 🡪This Verification Form may be considered the Notice. Details must be documented and explained in the RAR. |

**Rem#:**

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| **4. PMC (continued)** 22a-133k-2(a)1(B) and k-2(c) | Applicable Release Area (RA) ID #’s |
| [ ]  | TCLP/SPLP analysis of inorganic, semi-volatile, PCBs, or pesticides in polluted soil at or above seasonal low water table < GWPC x10 (or x dilution factor).  | 22a-133k-2(c)(2)(C)(GA Area) |       |
| [ ]  | Mass analysis of inorganic, semi-volatile, PCBs, or pesticide < GA PMC x 10 (***All of the following must apply***) |       |
|  | [ ]  | Release area is ≥ 25’ from downgradient property line (ii) (aa) |
| [ ]  | NAPL is not present, and (ii) (bb) |
| [ ]  | Water table is ≥15’ above the bedrock surface (ii) (cc) |
| [ ]  | TCLP/SPLP analysis of substance above seasonal high water table (**no NAPL present**)  | 22a-133k-2(c)(2)(D) |       |
|  | [ ]  | ≤ GWPC x10, **or** | (aa) |       |
| [ ]  | ≤ GWPC multiplied by ratio of up and downgradient areas, **or** | (bb) |       |
|  | [ ]  | ≤ GWPC multiplied by alternative dilution factor  | (cc) |       |
| [ ]  | Site-specific dilution in GB area | 22a-133k-2(c)(2)(E) |  |
| [ ]  | Notice provided to Commissioner on details of application |
| 🡪This Verification Form may be considered the Notice. Details must be documented and explained in the RAR. Or Date notice provided to the Commissioner:       |
| [ ]  | Additional Polluting Substance (Commissioner approval) | 22a-133k-2(c)(6) |       |
| Approval date(s):                    | 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | Alternative GA PMC (Commissioner approval)Approval date(s):                    | 22a-133k-2(d)(3) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | Alternative GA Dilution or Dilution Attenuation Factor (Commissioner approval)Approval date(s):                   | 22a-133k-2(d)(4) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | Alternative GB PMC (Commissioner approval)Approval date(s):                   | 22a-133k-2(d)(5) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | Alternative GB Dilution or Dilution Attenuation Factor (Commissioner approval)Approval date(s):                   | 22a-133k-2(d)(6) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |

**Rem#:**

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| **4. PMC (continued)** 22a-133k-2(a)1(B) and k-2(c) | Applicable Release Area (RA) ID #’s |
| [ ]  | **PMC not applicable** – Incidental Sources  | 22a-133k-2(c)(5) |
|  | [ ]  | Incidental release due to normal operation of motor vehicles |       |
| [ ]  | A result of normal paving and maintenance of pavement |       |
| [ ]  | **PMC not applicable** due to environmentally isolated soils | 22a-133k-2(c)(4)(A) |       |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:       |
|  | 🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR  |
| [ ]  | **PMC not applicable** - polluted fill (***All of the following must apply***) | 22a-133k-2(c)(4)(B) |       |
|  | [ ]  | Such fill is polluted only with coal ash, wood ash, coal fragments, asphalt fragments, or any combination thereof; |
| [ ]  | Such fill is not polluted with any VOCs >applicable PMC; |
| [ ]  | The concentrations of each substance in any such fill is consistent with DEC requirements;  |
| [ ]  | Such substance is not affecting and will not affect the quality of an existing or potential public water supply resource or an existing private drinking water supply;  |
| [ ]  | A public water supply distribution system is available within 200 feet of such parcel and all parcels adjacent thereof; and |
| [ ]  | The placement of the fill was not prohibited by law at the time of placement. |
| [ ]  | **PMC not applicable** to substances other than VOCs***(The following must apply*)** | 22a-133k-2(c)(4)(C) |
| [ ]  | 80% of RA subject to infiltration for at least 5 years, or (I) |       |
|  | [ ]  | Concentration of substance and extent of plume will not increase if anthropogenic feature removed, (Commissioner approval) (II) |       |
| Approval date(s):                    | 🡪Copy(s) of Approval(s) must be attached to RAR  |
| ANDone or more of the following apply (4)(C)(ii): |
|  | [ ]  | GA: The GWPC and the SWPC has been achieved for 4 consecutive quarters  |
| [ ]  | GB with GA concerns (groundwater in an Aquifer Protection Area or used as a source of public drinking supply): The GWPC and SWPC has been achieved for 4 consecutive quarters.  |
| [ ]  | GB: The SWPC has been achieved for 4 consecutive quarters  |
| AND **all** of the following must apply: |
| [ ]  | The groundwater sampling locations are representative of the plume and the areal extent of the plume that exceeds applicable criteria is not increasing over time |
| [ ]  | The concentration of substances is not increasing over time, and  |
| [ ]  | The groundwater samples were collected from locations most likely to have been impacted by release  |

**Rem#:**

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| --- | --- | --- |
| **5. Compliance with** **Pollutant Mobility Criteria**  | 22a-133k-2(e)(2) | Applicable Release Area (RA) ID #’s |
| [ ]  | 95% UCL  | 22a-133k-2(e)(2)(A) |       |
| [ ]  | All analyses of samples from RA ≤ PMC | 22a-133k-2(e)(2)(B) |       |
| [ ]  | Matrix interference  | 22a-133k-2(e)(3)(B) |       |
|  | 🡪Detailed summary must be presented in RAR | 22a-133k-2(e)(3)(C) |

|  |  |
| --- | --- |
| **6. Other Provisions** | Applicable Release Area (RA) ID #’s |
| [ ]  | Remediation of Soils Polluted with Lead to 500 mg/K, **provided**: | 22a-133k-1(g) |       |
|  | [ ]  | Prior to 6/27/2013, such remediation had been initiated **or** |
|  | Date remediation was initiated (documented by date of Public Notice of Remediation):  |
| [ ]  | RAP had been completed for such release (Date RAP was submitted to DEEP):  |
| [ ]  | **AND** | On or before 6/27/2015, remediation for such release has been completed |
|  | Date remediation of such release was completed:  |
| [ ]  | Widespread Polluted Fill Variance | 22a-133k-2(f)(1) |       |
| Discussed in the RAR in Section      , page      . |

|  |  |
| --- | --- |
| **7.** **Non-Aqueous Phase Liquids (NAPL)** | Applicable Release Area (RA) ID #’s |
| [ ]  | LNAPL removed to maximum extent practicable  | 22a-133k-2(g) |       |
| [ ]  | Any other NAPL removed to maximum extent prudent | 22a-133k-2(g) |       |
| Discussed in the RAR in Section      , page      . |

**Rem#:**

**Part IV. Groundwater Remediation Standards**

*Check either #1, #2, or #3 below to indicate the final assessment of release determination and investigation completed at the property for all potential releases at the property.*

**A. Groundwater Impact Determination and Plume Investigation**

1. [ ]  **No Releases to Groundwater**

All potential releases to groundwater within the property boundaries have been investigated in accordance with prevailing standards and guidelines, including the SCGD or equal alternative approach, and groundwater has not been impacted.

[ ]  And soil remediation for PMC was not required. Therefore groundwater compliance monitoring was not required. If checked, skip to [Part V. [Receptors]](#partV) below.

[ ]  However, soil remediation for PMC was required. Therefore groundwater compliance monitoring was required. If checked, skip to [Part IV. B. [Application of Groundwater Remediation Standards]](#IVB) below.

1. [ ]  **Releases to Groundwater –Remediation or other Compliance Measure was not Required**

Substances were detected in groundwater within the property boundaries, but all detected substances in groundwater were less than criteria before remediation or initiation of other compliance measure.

[ ]  The seasonal and three-dimensional distribution of all plumes associated with all releases have been characterized in accordance with prevailing standards and guidelines, including the SCGD (Phase III Investigation) or equal alternative approach.

If #2 is checked, skip to [Part IV. B](#IVB). below.

1. [ ]  **Releases to Groundwater – Remediation or other Compliance Measure was Required**

Substances in groundwater, and associated with a release within the property boundaries, exceeded criteria at any time.

[ ]  The seasonal and three-dimensional distribution of all plumes associated with all releases within the property boundaries have been characterized in accordance with prevailing standards and guidelines, including the SCGD (Phase III Investigation) or equal alternative approach.

|  |  |  |
| --- | --- | --- |
| **Criterion Exceeded** | **Category of COC** | **Compliance Measure** |
| [ ]  | Background | [ ]  | Non-chlorinated VOCs | [ ]  | Pump & Treat |
| [ ]  | GWPC | [ ]  | Chlorinated VOCs | [ ]  | Air Sparging / Vapor Extraction |
| [ ]  | SWPC | [ ]  | Metals | [ ]  | Dual-Phase |
| [ ]  | VolC | [ ]  | PAHs | [ ]  | Monitored Natural Attenuation |
|  | [ ]  | SVOCs | [ ]  | ELUR |
|  |  | [ ]  | PCBs | [ ]  | RSR Exemption |
|  | [ ]  | Petroleum Hydrocarbons | [ ]  | Use of RSR Alternatives  |
|  |  | [ ]  | Pesticides / Herbicides | [ ]  | Plume containment to mitigate off-site migration |
|  |  |  |  | [ ]  | Other:       |

**Rem#:**

1. [ ]  A plume associated with an on-site release to groundwater had migrated off-site prior to the Eligible Party taking title of the property; however, remediation for the off-site plume does not apply to the BRRP Eligible Party.

[ ]  Unknown

Do substances in off-site plume exceed criteria? [ ]  Yes [ ]  No [ ]  Unknown

1. If remedial measures were conducted to address Vapor Intrusion, complete box below:

|  |  |
| --- | --- |
| **Vapor Intrusion** | **Remedial Measure** |
| [ ]  Sub-slab depressurization | [ ]  Indoor-air monitoring |
| [ ]  Vapor barrier | [ ]  Alternative |

**B. Application of Groundwater Remediation Standards**

*In order to validate the application of the Groundwater Remediation Standards,* ***all*** *subsections of B.1 below are expected to be completed.*

|  |  |
| --- | --- |
| 1. **Application of** **Groundwater Remediation Standards**
 | RCSA 22a-133k-3 |
| [ ]  | All plumes have been investigated in accordance with prevailing standards and guidelines, including the SCGD or equal alternative approach. |
| [ ]  | A sufficient quantity and quality of groundwater data has been collected to understand seasonal and dimensional groundwater conditions. |
| [ ]  | Groundwater monitoring has been completed in accordance with 22a-133k-3(g).  |
| [ ]  | Groundwater monitoring was completed to determine the following: (mark all appropriate boxes below)  |
|  | [ ]  | The effectiveness of any soil remediation to prevent the pollution of groundwater from RA | 3(g)(1)(A) |
|  | [ ]  | Not applicable. Remediation of soil was not necessary. |
| [ ]  | The effectiveness of any measures to render soil environmentally isolated | 3(g)(1)(B) |
|  | [ ]  | Not applicable.  |
| [ ]  | The effectiveness of any remediation taken to eliminate or minimize risks associated with release, or risks identified in a risk assessment | 3(g)(1)(C) |
|  | [ ]  | Not applicable. No remediation of environmental media was conducted. |
| [ ]  | That all substances in groundwater in a GA or aquifer protection area meet Background or GWPC, as applicable | 3(g)(1)(D) |
|  | [ ]  | Not applicable. Groundwater in a GB area and not in aquifer protection area. |
| [ ]  | That all substances in groundwater meet SWPC and applicable VolC | 3(g)(1)(E) |
| [ ]  | If a plume in GB area interferes with any existing uses of groundwater for a drinking water supply or any other existing uses, including but not limited to industrial, commercial or agricultural uses | 3(g)(1)(F) |
|  | [ ]  | Not applicable. Groundwater is in a GA area. |
| [ ]  | **The Remedial Action Report documents and explains how the Groundwater Remediation Standards were achieved for each plume**. |

**Rem#:**

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| **2. Compliance with Criteria for Groundwater**  | 22a-133k-3(g)(2)(A) |
| [ ]  | Compliance samples were collected after: (i) |
|  | [ ]  | All remedial actions to achieve compliance with PMC and GWPC were complete, (i) (I) |
| [ ]  | No transient effects on hydraulic head, (i) (II) |
| [ ]  | Any changes to geochemistry stabilized and equilibrium conditions were established, AND (i) (III) |
| [ ]  | The concentrations of substances at each sampling location that represents the extent and degree of the plume were not increasing over time (except for natural attenuation or seasonal variation). (i) (IV) |
| [ ]  | Compliance samples were collected during 4 sampling events that reflect seasonal variability (ii)  |
|  | [ ]  | Completed in 1 year |
| [ ]  | Completed in 2 years |
| [ ]  | A substance was detected in any one seasonal quarter > criteria |
| [ ]  | Explained in RAR, in Section      , page      . |
| [ ]  | Alternative Means to Demonstrate Compliance (Commissioner approval) | 22a-133k-3(g)(2)(iii) | Release Area (RA) ID #’s or Site-Wide |
|  Approval date(s):                   |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |

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| **2a. Groundwater Compliance not applicable – Incidental Sources** 22a-133k-3(f) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Trihalomethanes resulting from releases of drinking water from public water supply system, or |       |
| [ ]  | Metals, petroleum hydrocarbons, or semi-volatile substances, provided such pollution is due to: |
| [ ]  | Incidental release due to normal operation of motor vehicles |       |
| [ ]  | A result of normal paving and maintenance of pavement |       |

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| **3. Background Groundwater Quality**  | 22a-133k-3(a)(1)(B) and k-3(a)(2) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Groundwater in GA area meets Background Groundwater Quality | 22a-133k-3(a)(2) |       |
| [ ]  | Background Water Quality not required(see 4a. below) | 22a-133k-3(d) |       |
| [ ]  | Exemption from Background due to Technical Impracticability | 22a-133k-3(e)(1) |       |

**Rem#:**

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| **4. Compliance with Background**  | 22a-133k-3(g)(2)(B) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Sampling locations are representative of plume, **and**  |
|  | [ ]  | analytical results ≤ Background concentration for groundwater **OR** | (i) |       |
| [ ]  | 12 consecutive monthly samples from each sampling location are ≤ 95% UCL | (ii) |       |

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| **4a. Compliance with Background not Required** | 22a-133k-3(d)(1) or (d)(2) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | GWPC, not Background, is applicable at site (**All of the following must apply**) | 22a-133k-3(d)(1) |       |
|  | [ ]  | The background concentration is ≤ GWPC; |
| [ ]  | A public water distribution system is available within 200 feet of the subject parcel, parcels adjacent thereto, and any parcel within the areal extent of the plume; |
| [ ]  | Such plume is not located in an Aquifer Protection Area; **AND** |
| [ ]  | Such plume is not located within the area of influence of any public water supply well. |
| [ ]  | Groundwater remediation to Background not required ***(All of the following must apply)*** | 22a-133k-3(d)(2) |       |
|  | [ ]  | All substances in plume ≤ GWPC prior to remediation. |
| [ ]  | The areal extent of the plume that exceeds applicable criteria is not increasing over time. |
| [ ]  | The concentration of substances is not increasing over time. |

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| **5. Groundwater Protection Criteria (GWPC)**  | 22a-133k-3(a)(2)(A) and k-3(d) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Groundwater in GA area remediated to GWPC | 22a-133k-3(d)(1) |       |
| [ ]  | Groundwater in GB area remediated to GWPC (groundwater used for drinking or other domestic purposes) | 22a-133k-3(d)(3) |       |
| [ ]  | Additional Polluting Substance (Commissioner approval)Approval date(s):                   | 22a-133k-3(h) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |

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| **6. Compliance with GWPC**  | 22a-133k-3(g)(2)(B) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Sampling locations are representative of plume, **and**  |
|  | [ ]  | analytical results ≤ GWPC for groundwater **OR** | (i) |       |
| [ ]  | 95% UCL of arithmetic mean of all samples representing plume for 12 consecutive monthly samples is ≤ applicable criteria | (ii) |       |

**Rem#:**

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| **7. Surface Water Protection Criteria (SWPC)**  | 22a-133k-3(a)(1)(A) and k-3(b) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Groundwater ≤ SWPC (remediation not required) |       |
| [ ]  | Groundwater remediated to SWPC, **or** if required: **↓** | 22a-133k-3(b)(1) |       |
| [ ]  | Groundwater remediated to Appendix D of Water Quality Standards | 22a-133k-3(b)(2) |       |

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| **8. Compliance with SWPC**  | 22a-133k-3(g)(2)I | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Alternative SWPC used (of substance listed in Appendix D, WQS) | 22a-133k-3(b)(3)(A) |       |
| [ ]  | Alternative SWPC (Commissioner approval)Approval date(s):                   | 22a-133k-3(b)(3)(B) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | Sampling locations are representative of plume, **and ↓** |
|  | [ ]  | 95% UCL of all samples representing plume is ≤ applicable criteria, **or** | (i) |       |
| [ ]  | Discharge point of plume ≤ SWPC  | (ii) |       |

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| **9. Volatilization Criteria (VolC)** 22a-133k-3(a)(1)(A) and k-3(c) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Groundwater polluted with VOCs ≤ Residential VolC | 22a-133k-3(c)(1) |       |
| [ ]  | Groundwater polluted with VOCs ≤ I/C VolC (ELUR recorded) | 22a-133k-3(c)(2) |       |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:       |
|  | 🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR  |
| [ ]  | Soil Gas Vapor Alternative | 22a-133k-3(c)(3)(A) |       |
|  | [ ]  | Soil vapor ≤ Res VolC , **or** | (i) |       |
| [ ]  | Soil vapor ≤ I/C VolC (ELUR recorded) | (ii) |       |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:       |
|  | 🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR |
| [ ]  | Site-specific and Alternative VolC (Commissioner approval)Approval date(s):                   | 22a-133k-3(c)(4) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |

**Rem#:**

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| **9. VolC (cont.)** 22a-133k-3(a)(1)(A) and k-3(c) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | **VolC exempt** (**all ↓ sub-requirements are applicable**) | 22a-133k-3(c)(5) |       |
| [ ]  | No buildings, plus best efforts to have all property owners to record ELUR | (A)(i) |       |
|  | Dates of Certificate of Titles for recordation of ELURs submitted to Commissioner:      |
|  | 🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR  |
| **🡪 If all property owners did not consent to ELUR, documentation of Best Efforts must be attached to RAR**  |
| **OR** |
| [ ]  | No buildings can reasonably be built over plume orVOCs ≤ VolC within 5 years (Commissioner approval)Approval date(s):      ,      ,       | (A)(ii) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
| [ ]  | Building exists, but Indoor Air Monitoring (Commissioner approval)Approval date(s):      ,      ,       | (B) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
|  [ ]  | **VolC not applicable** (**all ↓ sub-requirements are applicable**) | 22a-133k-3(c)(3)(B) |       |
|  | [ ]  | Measures acceptable to Commissioner have been taken to prevent migration of vapors into any overlying building; |
| [ ]  | A program is implemented to monitor and maintain all such measures; and |
| [ ]  | Notice of such measures have been submitted to Commissioner on the prescribed form. |
| Date Notice submitted to Commissioner:       |
| [ ]  | **VolC not applicable**  | 22a-133k-3(c)(1) |       |
|  | [ ]  | VOCs not detected in groundwater |
| [ ]  | VOCs detected in groundwater, but seasonally high water table is 15 feet or greater beneath ground surface or building |

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| **9. Compliance with VolC**  | 22a-133k-3(g)(2)(D) | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Compliance with VolC in Groundwater | (i) |       |
|  | [ ]  | Sampling locations are representative of plume, **and**  |
| [ ]  | analytical results ≤ applicable VolC, as determined by 22a-133k-3(c)  |
| **OR** |
| [ ]  | Compliance with VolC in Soil Vapor | (ii) |       |
|  | [ ]  | Sampling locations and frequency are representative of soil vapor, including seasonal variability, **and**  |
| [ ]  | analytical results ≤ applicable VolC |

**Rem#:**

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| **10. Other Provisions** | Release Area (RA) ID #’s or Site-Wide |
| [ ]  | Application of DEEP “Policy on Up-Gradient Contamination” (8/28/97)  | [Policy on Upgradient Contamination](https://portal.ct.gov/DEEP/Remediation--Site-Clean-Up/Guidance/Policy-on-Upgradient-Contamination) |       |
| [ ]  | Variance of groundwater remediation due to Technical Impracticability (Commissioner approval)Approval date(s):                   | 22a-133k-3(e)(2) |       |
| 🡪Copy(s) of Approval(s) must be attached to RAR |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner:      |
|  | 🡪Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to RAR |

**Part V: Receptors**

|  |  |  |
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| Groundwater Class:       | Depth to Water Table:       | Surface Water Class:       |
| Name of and Distance to nearest downgradient surface water body:       |
| Abutting land uses (check all that apply): | [ ]  Industrial [ ]  Commercial [ ] Residential [ ] Agriculture |
| Sensitive receptor land use within 500 feet of site (check all that apply): | [ ]  school [ ]  childcare facility [ ]  healthcare facility [ ]  recreational [ ]  residential[ ]  Sensitive Water Resource (e.g. shellfish beds, public fishing areas, significant wetland complexes, public water supplies)[ ]  other (specify):       |
| If groundwater impacted, indicate number of water supply wells within 500 feet of site boundaries:       |
| Water Supply Well Receptor Survey completed and submitted to the Commissioner: [ ]  Yes [ ]  No |
| Has a groundwater plume that originated on-site migrated off-site? [ ]  Yes [ ]  No |
| Number of water supply wells impacted from releases originating from on-site source:       |
| Permanent potable water supply provided by: | [ ]  Water Main | Date:       |
| [ ]  Filtration | Monitoring frequency:       |
| Did any on-site release have the potential to impact an Ecological Receptor | [ ]  Yes [ ]  No |
| If yes, were the potential ecological exposure pathways, where contaminants could affect aquatic and terrestrial life, evaluated | [ ]  Yes [ ]  No |
| If yes, what level of evaluation was completed? [ ]  Scoping [ ]  Screening [ ] Risk Assessment |
|  | If yes, was the ecological receptor impacted by an on-site release? | [ ]  Yes [ ]  No |
|  | Was the impact mitigated? | [ ]  Yes [ ]  No |

**Rem#:**

Part VI. Significant Environmental Hazard

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| Was a significant hazard, as defined in §22a-6u identified? | [ ]  Yes [ ]  No |
| Significant Hazard Notification filed?  | [ ]  Yes [ ]  No [ ]  N/A |
| What type(s) of hazard(s) were identified?       |
| Date of Commissioner’s Certification for Abatement:       |
| OR |
| Date of Commissioner’s Memorandum of Resolution:       |

**Optional (no implication on validity of verification)**

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| ASTM Standard for Greener Cleanups, E2893-13 (Nov. 2013) |
| [ ]  | Green Remediation Best Management Practices were considered. |
| [ ]  | Green Remediation Best Management Practices were used in the course of site investigation and/or remediation. |

**Part VII: Certification**

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| "In accordance with Section 32-769(j)(5) of the CGS, I submit this BRRP Final Verification that has been signed and sealed by a licensed environmental professional (LEP), and the attached BRRP Remedial Action Report, which has been approved in writing by a LEP, and other applicable documentation." |
|       |  |       |
| Printed Name of Signatory for Eligible Party |  | Title |
|  |  |       |
| Authorized Signature for Eligible Party |  | Date |
| Address:      City/Town:       State:    Zip Code:      Phone:      e-mail:       |

This completed form should be submitted to: Remediation Division, 2nd Floor

 Bureau of Water Protection and Land Reuse

 Department Of Energy & Environmental Protection

 79 Elm Street

 Hartford, CT 06106-5127