# DEEPLogoCIRCLEBoldtextaroundcircleDepartment of Energy & Environmental Protection

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

FORM I VERIFICATION (*Property*)

This verification must be signed by a Connecticut Licensed Environmental Professional and the (DEEP use only)

Ver#:

Rem#:

Certifying Party. Print or type unless otherwise noted. Retain a copy for your records.

**Part I: Site Information**

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

Part II: Verification

|  |  |
| --- | --- |
| "In conjunction with the transferor’s certification on the Form I that no discharge, spillage, uncontrolled loss, seepage or filtration of a hazardous waste has occurred at the establishment, I verify in accordance with Section 22a-134(10) 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 at the parcel in accordance with prevailing standards and guidelines,and that  pollution caused by a discharge, spillage, uncontrolled loss, seepage or filtration of a hazardous substance has been remediated **in accordance with the remediation standards (RCSA Sections 22a-133k-1 through 22a-133k-3).**  (Check if applicable)  Since any such verification, including a verification previously submitted to the commissioner for a ‘portion’ of the establishment, no discharge, spillage, uncontrolled loss or filtration of a hazardous *waste* or a hazardous *substance* has occurred at any portion of the establishment.” | |
|  | LEP Seal |
| Signature of Licensed Environmental Professional License #: |  |
|  |  |
|  |  |
| Name of Licensed Environmental Professional (print or type) |  |
| **Date of signature/verification**:  Phone Number:  email: |  |

Lot:       Block:       Map:       Town:

Part III: Compliance History

1. **Previous Verification Information**

If a previous verification or Commissioner Approval is on record for this site, complete the box below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type of Verification | | Date Verification submitted | Rem# | Ver# | Status |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | Commissioner Approval of Remediation | |  | Date of approval: | |

|  |  |
| --- | --- |
|  | Conditions or environmental controls presented in any verification or Commissioner Approval of Remediation indicated above (and incorporated into this verification) have not changed since the rendering of such verification/approval. |
| Comments: |

1. Significant Environmental Hazard

|  |  |
| --- | --- |
| 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: | |

**Lot:       Block:       Map:       Town:**

1. **Environmental Land Use Restriction**
2. There are no ELUR’s recorded for the subject parcel.

**2**.  ELUR was approved by the Commissioner and recorded on the land records pursuant to a previous project in a remedial program and the ELUR is still recorded on the land records. If checked, complete the table below:

|  |  |  |
| --- | --- | --- |
| Date of Commissioner’s approval of ELUR: | | |
| Date Certificate of Title for recordation of ELUR submitted to Commissioner: | | |
| Purpose of ELUR: | | |
|  | Financial Surety Mechanism was established under a previous verification. | |
|  | If yes, the financial surety mechanism has been confirmed to still be in place and remains valid. |

**Part IV:** **Standards for Soil Remediation**

**A. Release Determination and Investigation**

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

**1.**   **No Releases to Soil (subsequent to a previous valid final verification of remediation of hazardous substance only)**

All potential releases to soil have been evaluated in accordance with prevailing standards and guidelines, including the SCGD (Phase I / II ESA) or other equal alternative approach, and there has not been any release to soil subsequent to a previous verification - in good standing - rendered for the establishment.

If #1 checked, skip to [Part V [Groundwater Remediation Standards]](#partV) below.

**2.**  **Releases to Soil –Remediation Required**

Institutional/administrative compliance measures are not considered “Remedial Measures.”

Hazardous substances in soil exceeded criteria. Complete the information in the box below and the rest of Section B below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criterion Exceeded** | | **Category of COC** | | **Remediation Measure** | |
| PMC | |  | Non-chlorinated VOCs |  | Excavation & Removal |
|  | GA |  | Metals |  | Excavation / On-site Re-use |
|  | GB |  | PAHs |  | Other |
| DEC | |  | SVOCs |  |  |
|  | Res |  | Petroleum Hydrocarbons |  |  |
|  | I / C |  | PCBs (<50 ppm) |  |  |
|  |  |  | Pesticides / Herbicides |  |  |

**Lot:       Block:       Map:       Town:**

|  |  |
| --- | --- |
|  | The Form I Verification Report (VR) documents and explains how the Soil Remediation Standards were achieved at each release area. |

1. **Remediation 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 VR. | | |
|  | Polluted soil reused on-site | 22a-133k-2(h)(3) |  |
| Total volume excavated soil reused on site: | | |

**2. Other Remedial measures**

|  |  |
| --- | --- |
|  | Describe measures taken: |

|  |  |
| --- | --- |
|  | Public notice of remediation was posted in accordance with the requirements of §22a-134a 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 VR. | |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2. Direct Exposure Criteria (DEC)** 22a-133k-2(a)1(A) and k-2(b) | | | | Applicable Release Area (RA) ID #’s |
|  | Additional Polluting Substance (Commissioner approval)  Approval date(s): | | 22a-133k-2(b)(5) |  |
| 🡪Copy(s) of Approval(s) must be attached to VR | |
|  | Polluted soils ≤ Residential DEC | | 22a-133k-2(b)(1) |  |
|  | **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 | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **3. Compliance with DEC**  22a-133k-2(e) | | | | Applicable Release Area (RA) ID #’s |
|  | 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 VR | 22a-133k-2(e)(3)(C) | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **4. Pollutant Mobility Criteria (PMC)** 22a-133k-2(a)1(B) and k-2(c) | | | | | Applicable Release Area (RA) ID #’s |
|  | Additional Polluting Substance (Commissioner approval) | | | 22a-133k-2(c)(6) |  |
|  | Approval date(s): | | | 🡪Copy(s) of Approval(s) must be attached to VR | |
|  | | 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 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) | | |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **4. PMC (continued)** 22a-133k-2(a)1(B) and k-2(c) | | | | | | | Applicable Release Area (RA) ID #’s | |
|  | 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 VR*. | | | |
| (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 VR*. | | | |
|  | 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 VR.  OR =>Date notice provided to the Commissioner: | | | | | | |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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** - 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 (I) | | |  |
| **AND** one or more of the following apply (4)(C)(ii): | | | | |
|  |  | GA: The GWPC and the SWPC have 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. | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **5. Compliance with** **PMC** | | | 22a-133k-2(e)(2) | Applicable Release Area (RA) ID #’s |
|  | 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 VR | | |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 completed by LEP): | | | | |
|  | **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 VR, 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 VR, Section      , page      . | | | |

**Lot:       Block:       Map:       Town:**

**Part V. Groundwater Remediation Standards**

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

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

1. **No Releases to Groundwater**

All potential releases to groundwater have been investigated in accordance with prevailing standards and guidelines, including the SCGD or equal alternative approach, and groundwater has not been impacted from on-site releases.

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

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

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

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

The nature and distribution of all plumes have been characterized in accordance with prevailing standards and guidelines.

If #2 is checked, skip to [Part V. B. [Application of Groundwater Remediation Standards]](#partVB) below.

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

Substances in groundwater exceeded criteria at any time.

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

If #3 is checked, complete the information in the box below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criterion Exceeded** | | **COC** | | **Compliance Measure** | |
|  | Background |  | Non-chlorinated VOCs |  | Pump & Treat |
|  | GWPC |  | Metals |  | Air Sparging / Vapor Extraction |
|  | SWPC |  | PAHs |  | Dual-Phase |
|  | VolC |  | SVOCs |  | Monitored Natural Attenuation |
|  | |  | PCBs |  | RSR Exemption |
|  |  |  | Petroleum Hydrocarbons |  | Use of self-implementing RSR Alternatives |
|  | |  | Pesticides / Herbicides |  | Other: |

**Lot:       Block:       Map:       Town:**

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 |  |

**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) (A) |
|  |  | Not applicable. Remediation of soil was not necessary. | | |
|  | The effectiveness of any measures to render soil environmentally isolated | | | 3(g) (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) (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) (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) (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) (F) |
|  |  | Not applicable. Groundwater is in a GA area. | | |
|  | **The Form I Verification Report documents and explains how the Groundwater Remediation Standards were achieved for each plume.** | | | | |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |
| --- | --- | --- | --- |
| **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 VR, Section      , page      . | |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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) |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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) |  |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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, | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 VR | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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) |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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) |  |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 VR | | | |
|  | 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) | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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) |  |
|  | **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 | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **10. 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 | | | |

**Lot:       Block:       Map:       Town:**

|  |  |  |  |
| --- | --- | --- | --- |
| **11. Other Provision** | | | Release Area (RA) ID #’s or Site-Wide |
|  | Application of DEEP “Policy on Up-Gradient Contamination” (8/28/97) | [Policy on Upgradient Contamination](http://www.ct.gov/dep/cwp/view.asp?a=2715&q=324960&depNav_GID=1626) |  |

**Part VI: Receptors**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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): | | | | | | |
| 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 |
| If groundwater impacted, indicate number of water supply wells within 500 feet of site boundaries: | | | | | | | | |
| Has a groundwater plume that originated on-site migrated off-site?  Yes  No | | | | | | | | |
| Water Supply Well Receptor Survey completed and submitted to the Commissioner:  Yes  No | | | | | | | | |
| Number of water supply wells impacted from releases originating from on-site source: | | | | | | | | |
| Permanent potable water supply provided by: | | | | | Water Main connection | | Date: | |
| Filtration | | Monitoring frequency: | |

**Lot:       Block:       Map:       Town:**

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

|  |  |
| --- | --- |
| 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**

**Certifying Party Certification**

|  |  |  |
| --- | --- | --- |
| "In accordance with Section 22a-134a(g) of the CGS, I submit this Form I Verification that has been signed and sealed by a licensed environmental professional (LEP), and the attached Form I Verification Report, which has been approved in writing by a LEP, and other applicable documentation." | | |
|  |  |  |
| Printed Name of Signatory for Certifying Party |  | Title |
|  |  |  |
| Authorized Signature for Certifying Party |  | Date |
| Certifying Party:  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