**Text

Description automatically generated**

79 Elm St. Hartford, CT 06106-5127

(860) 424-3705

[portal.ct.gov/DEEP/remediation](https://portal.ct.gov/DEEP-remediation)

**FORM IV FINAL VERIFICATION (Business)**

Please refer to the [Verification Form Instructions](https://portal.ct.gov/DEEP/Remediation--Site-Clean-Up/Licensed-Environmental-Professional-Program/Verification-Form-Instructions) for more information on how to fill out and submit this form properly. The address and Rem# in the headers will automatically update upon printing (including printing to pdf) or print-previewing. Yellow fields are mandatory.

|  |  |  |  |
| --- | --- | --- | --- |
| **DEEP Use Only** | Date Received: | Outcome |  |
| Verification #: |  |
| Rem #: |  |

**Part I: General Information**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Establishment Name (current or former name)  Establishment Name | | |  | This property is described in the land records of: | | | |
| Establishment Street Address  Establishment Address | | |  | Tax Assessor Town  Tax Assessor Town | | | |
| City/ Town  City/Town | State  **CT** | ZIP  00000 |  | Lot/Parcel ID  Lot/Parcel | Block  Block | Map  Map | Total Acreage  Acres |
| For transfers that occurred  after October 1, 2020: | | Establishment is limited to a portion of a multi-tenant site or a unit and associated common elements in a common interest community | | | | | |

[](https://portal.ct.gov/DEEP/Remediation--Site-Clean-Up/Licensed-Environmental-Professional-Program/Verification-Form-Instructions#LEP/CP)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Licensed Environmental Professional (LEP) | | |  | Certifying Party (CP) | | |
| Name  Name | | |  | Name of Signatory for CP  Name | | |
| Company  Company Name | | |  | CP  Certifying Party | | |
| Address  Address | | |  | Address  Address | | |
| City/Town  City/Town | State  State | Zip  00000 |  | City/Town  City/Town | State  State | Zip  00000 |
| Phone  Phone | | |  | Phone  Phone | | |
| E-mail  E-mail | | |  | E-mail  E-mail | | |

**Part II: Verification Information**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | This verification pertains to the following Property Transfer Filing: | | | Rem #  **Rem #** | Date of Form IV Filing  mm/dd/yyyy | | Date of Supporting Form IV Verification  mm/dd/yyyy | |  |  |
| Prior Form III Property Transfer Filings to be Closed with this Verification (if any)  Rem #s |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **LEP Certification** | | |  | **CP Certification** | |  |
| "I verify in accordance with §22a-134(23) of the CGS and §22a-133v-1(z) of the RCSA, that the following has been completed in accordance with the Form IV previously filed with the Department:  *Select all that apply:* | | |  | “In accordance with Section 22a-134(13) and Section 22a-134a(c) of the CGS, I submit this Final Form IV Verification signed and sealed by a licensed environmental professional (LEP) and the attached Final Form IV Verification Report, which has been approved in writing by a LEP, and other applicable documentation.  I understand that this Final Form IV Verification **does not** attest to the following:   * Any release that may have occurred at the property but was not associated with business operations * Any release associated with business operations that may have occurred subsequent to the applicable date of the supporting Form IV verification referenced above” | |  |
| An environmental use restriction (EUR) has been executed and recorded in accordance with RCSA Section 22a-133q-1, and full compliance with the Remediation Standards Regulations has been achieved.” | | |
| Groundwater Remediation Standards (RCSA Section 22a-133k-3) has been achieved: | | |
|  | Monitored natural attenuation groundwater monitoring has been completed.” | |
|  | Compliance groundwater monitoring has been completed.” | |
|  | | |  |  | |  |
| LEP Signature | | |  | CP Authorized Signature | |  |
| LEP Printed/Typed Name  Name | | |  | CP Authorized Signatory Printed/Typed Name  Name | |  |
| Date of LEP Signature  mm/dd/yyyy | |  |  | Date of CP Signature |  |  |
| LEP Seal | | LEP License #  Number |  |  | |  |
|  |  |  |

**Part III: Setting and Receptors**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A. Environmental & Cultural Setting** | | | | | | | | | |
| Groundwater Classification: | GW Class |  | | Surface Water Classification: | | SW Class | |  | |
| Depth to Water Table: | Depth | |  | Nearest Downgradient Surface Water Body: | | SW Name | | |  |
| Depth to Bedrock: | Depth | |  | Distance to Surface Water Body Named Above: | | Distance | |  | |
|  |  | |  | |  | |  | |  |
| Abutting Land Uses:  *(check all that apply)* | Industrial  Commercial  Residential  Agricultural  Undeveloped | | | | | | | |  |

|  |  |  |
| --- | --- | --- |
| **B. Sensitive Receptor Land Use** | | |
| Sensitive Receptor Land Use Within 500 Feet of the Site:  *(check all that apply)* | School  Recreational  Residential  Child Care Facility  Healthcare Facility  Sensitive Water Resource *(e.g. shellfish beds, public fishing areas, significant wetland complexes, public water supplies)*  Other *(specify)*: Describe |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **C. Significant Environmental Hazards** | | | | | | | |
| Was a significant hazard, as defined in 22a-6u, identified? | | Yes  No | |  | | | |
| Significant Hazard Notification filed: | | Yes  No  Not applicable | | | |  | |
| What type(s) of hazard(s) were identified? | |  |  | | | | |
|  | Click here to enter text. | | | | | |  |
| Hazard Resolution *(select all that apply)* | | | | |  | | |
|  | Commissioner’s Certification for Abatement | Enter Dates | | | | |  |
|  | Commissioner’s Memorandum of Resolution | Enter Dates | | | | |  |

**Part IV: Approvals and Notices**

|  |
| --- |
| Select approvals and notifications applicable to this Final Form IV Verification. Attach copies of approvals and applicable notification forms to this form as *Appendix B* and discuss all notifications and required provisions in the verification report. |

| **1. Additional Polluting Substances and Alternative Criteria** | | | | |
| --- | --- | --- | --- | --- |
| Additional polluting substances criteria  GWPC  SWPC  VolC | | Commissioner approval date(s): | mm/dd/yyyy |  |
|  |  | | | |
| Alternative criteria requiring commissioner approval  GWPC  SWPC  VolC | | Commissioner approval date(s): | mm/dd/yyyy |  |
|  | |  |  |  |
| LEP-calculated criteria (notice only)  GWPC (≤ 100 x established GWPC & ≤ Res VolC)  SWPC (≤ 100-1,000x WQC based on distance to SW) | | No approval required. Calculations and site-specific parameters must be provided in the verification report. | |  |
|  |  | | | |
| Matrix interference – commissioner approved laboratory reporting limit as clean-up standard  GWPC  SWPC  GWVC | | Commissioner approval date(s): | mm/dd/yyyy |  |

| **2. Environmental Use Restrictions (EUR)** *§22a-133k-1(e)* | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| An EUR was recorded for the site, and the site is currently in compliance with the EUR. | | | | Attach EUR Fact Sheet and Certificate of Title (for an ELUR) or updated title search (for a NAUL) referencing the volume, page, and date the EUR was recorded to this form as *Appendix C*. If available, attach the Notice of Receipt. | | |
|  |  | | | | | |
|  | **2a. Environmental Land Use Restriction (ELUR)** | | | | | |
|  | An ELUR was recorded on the site | | | Date Certificate of Title  accepted by commissioner: | mm/dd/yyyy |  |
|  |  | | | | | |
|  | **2b. Notice of Activity and Use Limitation (NAUL)** | | | | | |
|  | A NAUL was recorded on the site | | |  | | |
|  |  | Commissioner Approval | | Date final NAUL documents submitted to commissioner: | mm/dd/yyyy |  |
|  |  | LEP Approval | | Date final NAUL documents  submitted to commissioner: | mm/dd/yyyy |  |
|  |  | Date NAUL  signed by LEP: | Enter Date |  |  |  |

| **3. Financial Assurance** *§22a-133k-1(f)* | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Financial assurance requirements have been evaluated for:  Engineered control variance  Technical impracticability variance | | | | | | | | | | | |
|  | Financial surety established | | | | Date surety instrument  information submitted to commissioner: | | | mm/dd/yyyy | | |  |
|  | Type of financial surety instrument: | | Select Instrument | | Attach copy of surety instrument in *Appendix B*. | | | |  | |  |
|  | |  | | | | | |  | | | |
|  | Financial surety not required | | | | | | | | | |  |
|  | | Amount < $10,000. | | | |  | | | |  | |
|  | | Municipality or agency or political subdivision of state or federal government. | | | |  | | | |  | |
|  | |  | | | | |  | | | | |
|  | Financial surety instrument was established under a previous verification, is still in place, and remains valid. | | | | | | | | | |  |
|  | | Comments: | | Enter text as needed. | | | | | | |  |

| **4. Technical Impracticability for Groundwater Remediation** *§22a-133k-3(e)* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| The commissioner approved a technical impracticability variance for GWPC and/or SWPC | | | |  | **RA Plume / Site-Wide** | |  |
|  | Approval date(s): | | mm/dd/yyyy |  | Enter RA IDs | |  |
|  | EUR recorded/pending? | | Yes  Not applicable |  |  |
|  |  | |  |  |  | |  |
|  | | **Please complete the EUR (Part IV.A.2) and Financial Assurance (Part IV.A.3) sections, as appropriate.** | | | |  | |

| **5. Conditional Exemption for Groundwater Polluted with Pesticides** *§22a-133k-3(g)(7) & (8)* | | | | | |
| --- | --- | --- | --- | --- | --- |
| Compliance with groundwater criteria is not required for pesticides in groundwater resulting from the application of pesticides at the release area. | | |  | **RA Plume / Site-Wide** |  |
|  | Pesticides applied at the parcel are present in groundwater on other parcels at concentrations exceeding the GWPC, and best efforts have been made to ensure that an EUR providing notice has been recorded for the affected parcels. | Attach certification in *Appendix B*. |  | Enter RA IDs |  |
|  | Notice of compliance with the requirements of §22a-133k-3(g), including all relevant documents, has been submitted to the Director of Health in the municipality where such pesticides in groundwater are located. | Attach copy  of notice in *Appendix B*. |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **6. Emerging Technologies & Alternate Approaches for GW Compliance** *§22a-133k-3(h)(3)(D)* | | | | | |
| An alternative method of demonstrating compliance with RSR groundwater criteria based on emerging technologies and approaches for which guidance or standard has been published was approved by the commissioner.  Background  GWPC  SWPC  VolC | | |  | **Release Area ID** |  |
| Enter RA IDs |
|  | Description of alternative method(s):  Enter Description | |  |  |  |
|  | Approval date(s): | mm/dd/yyyy |  |  |  |

**Part V: Environmental Use Restriction (EUR)** *§22a-133k-1(e)*

|  |  |  |  |
| --- | --- | --- | --- |
| An EUR was recorded pursuant to the subject Form IV to achieve compliance with the RSRs.  The site is currently in compliance with the EUR, and the attached verification report documents how the EUR achieves compliance with the RSRs at each applicable release area. | | | [Complete Part IV.A.2](#Part_IV_A2) |
|  | Public notice of EUR was posted in accordance with the requirements of §22a-134a and §22a-133k-1(d) of the RCSA. | Attach a copy of the public notice to this form as *Appendix A* and discuss any comments received in the verification report. | |
| [If an EUR is not applicable, skip to Part VI](#Part_VI) | | | |

|  |  |
| --- | --- |
| **A. Releases Addressed by the EUR** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Substance Category** | **Criterion Exceeded** | | | | | **PMC**  **GA GB** | **DEC**  **Res I/C** | **VolC** | **GWPC** | | Non-chlorinated VOCs |  |  |  |  | | Chlorinated VOCs |  |  |  |  | | Metals |  |  | --- |  | | PAHs |  |  | --- |  | | SVOCs (other than PAHs) |  |  | --- |  | | PCBs |  |  | --- |  | | Petroleum Hydrocarbons |  |  |  |  | | Pesticides / Herbicides |  |  | --- |  | | Other Specify |  |  |  |  | |  |

|  |
| --- |
| **B. Remediation Standards Addressed by the EUR** |

| **1. Direct Exposure Criteria (DEC) Applicable Release Areas** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Polluted soil ≤ Industrial/commercial (I/C) DEC (not PCBs) | | | | |  |  |  |
| PCBs ≤ I/C DEC *§22a-133k-2(b)(2)(B)*  → Non-residential.  → Parcel is an electrical substation or other restricted access location.  → Use consistent with [40 CFR 761](https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr761_main_02.tpl) high-occupancy provisions. | | | | |  | Enter RA IDs |  |
| Inaccessible soil exemption | | | | |  |  |  |
|  | Non-PCBs < 15 feet deep *§22a-133k-2(b)(3)* | | | |  | Enter RA IDs |  |
|  | PCBs are inaccessible and ≤ the following: | | | |  | Enter RA IDs |  |
|  |  | | 10 ppm dry weight (I/C) | |  |  |
|  |  | | 25 ppm dry weight  → Other restricted access (40 CFR 761.123) | |  |  |
|  |  | | 25 ppm dry weight  → Electrical substation (40 CFR 761.123) | |  |  |
|  |  | | 50 ppm dry weight  → Electrical substation and area labeled (40 CFR 761) | |  |  |
| Engineered control variance *§22a-133k-2(f)(2)* | | | | |  | Enter RA IDs |  |
| Pesticide exemption related to: *§22a-133k-2(b)(6)* | | | | |  | Enter RA IDs |  |
|  | | Residential use | |  | |  |  |
|  | | I/C use | |  | |  |  |
|  | | Agricultural use | |  | |  |  |
| Alternative DEC (commissioner-approved) *§22a-133k-2(d)(2)* | | | | |  | Enter RA IDs |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **2. Pollutant Mobility Criteria (PMC) Applicable Release Areas** | | | |
| Environmentally isolated soil exemption *§22a-133k-2(c)(5)(A)* |  | Enter RA IDs |  |
| Engineered control variance *§22a-133k-2(f)(2)* |  | Enter RA IDs |  |
| Widespread polluted fill variance *§22a-133k-2(f)(1)* |  | Enter RA IDs |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **3. Non-Aqueous Phase Liquids (NAPL) Variance** *§22a-133k-2(g)* **Release Area ID** | | | |
| Variance to removing NAPL to the maximum extent practicable |  | Enter RA IDs |  |

| **4. Volatilization Criteria (VolC) Release Area ID** | | | |
| --- | --- | --- | --- |
| ≤ Industrial/commercial (I/C) VolC |  | Enter RA or Site-Wide |  |
| Exemption from VolC because measures to prevent migration of VOCs into overlying buildings have been implemented and demonstrated to be effective. §*22a-133k-3(c)(6)* |  | Enter RA or Site-Wide |  |
| Exemption from VolC for no-building restriction. §*22a-133k-3(c)(5)*  → No building present over subject GW plume.  → For VOCs (other than petroleum VOCs) that exceed applicable VolC within 30 feet of any part of a building, there is no potential vapor intrusion pathway.  → EUR recorded to prohibit construction of a building. |  | Enter RA or Site-Wide |  |
| Exemption from VolC through indoor air monitoring.  §*22a-133k-3(c)(6)* |  | Enter RA or Site-Wide |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **5. Technical Impracticability for Groundwater Remediation** *§22a-133k-3(e)* **RA Plume / Site-Wide** | | | |
| Technical impracticability exemption for GWPC and/or SWPC  → Commissioner-approved |  | Enter RA or Site-Wide |  |

**Part VI: Standards for Groundwater Remediation**

|  |  |  |  |
| --- | --- | --- | --- |
| Monitored natural attenuation (MNA) of a groundwater plume and/or compliance monitoring were completed after the Form IV filing. | | |  |
|  | MNA was completed after the Form IV filing. |  |  |
|  | Compliance monitoring was completed after the Form IV filing. | If MNA was conducted, this box  must also be checked. |  |
| [If neither MNA nor compliance monitoring is applicable, skip to Part VII](#Part_VII) | | |  |

|  |
| --- |
| **A. Groundwater Plumes Subject to MNA and/or Compliance Monitoring** |
| Fill out this section **only** for groundwater plumes for which MNA and/or compliance monitoring were completed after the Form IV filing. |

|  |  |
| --- | --- |
| **1a. Release Constituents** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Substance Category** | **MNA Constituent** | **Compliance Endpoint(s)** | | | | | **Background** | **GWPC**  **GA GB1** | **SWPC** | **VolC**  **Res I/C** | | Non-chlorinated VOCs |  |  |  |  |  | | Chlorinated VOCs |  |  |  |  |  | | Metals |  |  |  |  |  | | PAHs |  |  |  |  |  | | SVOCs (other than PAHs) |  |  |  |  |  | | PCBs |  |  |  |  |  | | Petroleum Hydrocarbons |  |  |  |  |  | | Pesticides / Herbicides |  |  |  |  |  | | PFAS |  |  |  |  |  | | Other: Specify |  |  |  |  |  | |  |
| 1Applicable in GB areas where GW is used as a drinking water supply. |  |

| **1b. Upgradient Plume Applicability** | | | |
| --- | --- | --- | --- |
|  | An upgradient groundwater plume has impacted the Site. *§22a-133k-3(h)(4)* | |  |
|  | | *No-comingled plumes* – Concentrations of substances in GW at the downgradient parcel may be ≤ concentrations in the GW plume at the boundary between the upgradient and downgradient parcels.  → Soil on downgradient parcel complies with the soil standards in 22a-133k-2 of the RSRs.  → All exposure pathways associated with drinking water and vapor intrusion have been eliminated or mitigated at the downgradient parcel.  → Such substances are not already present in a GW plume at the downgradient parcel. |  |
|  | | *Comingled plumes* – Concentrations of substances in the co-mingled GW plume at the downgradient parcel may be ≤ concentrations in the GW plume at the boundary between the upgradient and downgradient parcels.  → Soil on downgradient parcel complies with the soil standards in 22a-133k-2 of the RSRs.  → All exposure pathways associated with drinking water and vapor intrusion have been eliminated or mitigated at all parcels impacted by the GW plume emanating from the downgradient parcel. |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2. Groundwater Compliance Measures**  **Implemented *(Other than MNA)* Report Page # / Attachment** | | | | |
| Groundwater Compliance Monitoring |  | Page # |  |  |
| EUR |  | Page # | [Complete Part IV.A.2](#Part_IV_A2) |  |
| 95% UCL |  | Page # |  |  |
| Technical Impracticability |  | Page # | [Complete Part IV.A.4](#Part_IV_A4) |  |
| Emerging Technologies & Alternative Approaches |  | Page # | [Complete Part IV.A.6](#Part_IV_A6) |  |
| RSR Exemptions |  | Page # |  |  |
| Other: Specify |  | Page # |  |  |

|  |
| --- |
| **B. Application of Groundwater Remediation Standards** |
| The following box must be checked for all groundwater monitoring relevant to this verification: |
| The groundwater monitoring was capable of determining all of the following: *§22a-133k-3(h)(1)*  → Validity of conceptual model for the release area.  → Background conditions.  → Whether substances were present and ≤ applicable GW criteria.  *If applicable, check the following:*  Remediation was conducted. GW monitoring demonstrated the effectiveness of remediation to eliminate or minimize risks to human health and the environment.  MNA was implemented. GW monitoring demonstrated the effectiveness of MNA to achieve compliance with GW criteria in a reasonable timeframe.  Site in GB area. GW monitoring determined whether a GW plume interferes with existing GW uses.  Upgradient plume(s) present:  Compliance monitoring demonstrated that exposure pathway mitigation was not necessary (complete the applicable portions of this section).  No compliance monitoring necessary because receptor exposure pathways are not present or have been mitigated. If there are no other on-site plumes, skip to [Part VII](#Part_VII). |

| **1. Prerequisites for Determining Compliance with GW Remediation Standards** *§22a-133k-3(h)(2&3)* | | | | | |
| --- | --- | --- | --- | --- | --- |
| The following prerequisites must be checked if groundwater monitoring was conducted to demonstrate compliance with applicable groundwater criteria. If either box cannot be checked, then verification that groundwater complies with criteria is not appropriate at this time. | | | | |  |
| All GW compliance samples were collected after:  → All remedial actions to achieve compliance with the PMC and applicable GW criteria (if necessary) were completed.  → Aquifer no longer subject to transient effects on hydraulic head attributable to remediation or site redevelopment (if conducted).  → Any changes to geochemistry have stabilized and equilibrium conditions were established.  → GW plume(s) in a diminishing state. | | | | |  |
|  | | | | |  |
| All GW compliance samples were collected over at least 4 sampling events that reflect seasonal variability (except for monitoring conducted in accordance with 22a-133k-3(h)(3)(B)(ii) or (C)(ii)), and monitoring was completed in:  1 year  2 years  >2 years for 95% UCL for SWPC *(B)(ii)*  Heating/cooling seasons for SVVC *(C)(ii)* | | | | |  |
|  | Did a COC exceed criteria during any compliance monitoring event? | | | |  |
|  | Yes  No | If yes, enter page(s) discussed in the verification report: | Page # |  |  |

| **2. Background** *§22a-133k-3(a)(1&2)* |
| --- |

§*22a-133k-3(h)(3)(A)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2a. Compliance with Background RA Plume / Site-Wide** | | | |  |
| Groundwater meets background groundwater quality. | |  | Enter RA or Site-Wide |  |
|  | **Identify Applicable Methods of Demonstrating Compliance with Background**  §*22a-133k-3(h)(3)(A)* | | |  |
|  | All laboratory results at all sampling locations ≤ background |  | Enter RA or Site-Wide |  |
|  | 95% UCL of at least 12 consecutive monthly samples ≤ background for each sampling location. |  | Enter RA or Site-Wide |  |
|  | COCs ND at the laboratory reporting limit due to matrix interference  §*22a-133k-1(h)(3)*  → Commissioner-approved |  | Enter RA or Site-Wide |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **2b. Remediation to Background in GA Area Not Required RA Plume / Site-Wide**  *§22a-133k-3(d)* | | | | |  |
| Remediation to GWPC, not background, is applicable. | | |  | Enter RA or Site-Wide |  |
|  | *Identify at least one condition permitting use of GWPC and complete Part VI.B.3 (GWPC Compliance):* | | | |  |
|  |  | No water supply risk. All of the following apply:  → A public water distribution system is available within 200 feet of the subject parcel, all adjacent parcels, and any parcel within the areal extent of the plume.  → Plume not located in aquifer protection area.  → Plume is not located within the area of influence of any public water supply. |  | Enter RA or Site-Wide |  |
|  |  | Prior to any soil or GW remediation, the plume was in a diminishing state. |  | Enter RA or Site-Wide |  |
|  |  | Each substance in GW was remediated to the GWPC, and further reduction of concentrations to background cannot be achieved. |  | Enter RA or Site-Wide |  |
|  |  | |  |  |  |
| Other exemptions from compliance with background apply (incidental sources, pesticide application). | | |  | [Complete Part VI.B.5.](#Part_VI_B5) |  |

| **3. Groundwater Protection Criteria (GWPC) Compliance RA Plume / Site-Wide** | | | | |
| --- | --- | --- | --- | --- |
| Groundwater complies with GWPC.  GA Area (exempt from background) [Complete Part VI.B.2b.](#Part_VI_B2b)  GB Area (GW used for drinking) | |  | Enter RA or Site-Wide |  |
|  | **Identify Applicable Methods of Demonstrating GWPC Compliance RA Plume / Site-Wide**  §*22a-133k-3(h)(3)(A)* | | |  |
|  | All laboratory results at all sampling locations ≤ GWPC |  | Enter RA or Site-Wide |  |
|  | 95% UCL of at least 12 consecutive monthly samples ≤ GWPC for each sampling location.  §*22a-133k-3(h)(3)(A)* |  | Enter RA or Site-Wide |  |
|  | COCs ND at the laboratory reporting limit due to matrix interference  §*22a-133k-1(h)(3)*  → Commissioner-approved |  | Enter RA or Site-Wide |  |
|  |  |  |  |  |
| Exemptions from compliance with the GWPC apply (incidental sources, pesticide application, technical impracticability). | |  | [Complete Part VI.B.5.](#Part_VI_B5) |  |

| **4. Surface Water Protection Criteria (SWPC) Compliance RA Plume / Site-Wide** | | | | |
| --- | --- | --- | --- | --- |
| Groundwater complies with SWPC | |  |  |  |
|  | ≤ SWPC §*22a-133k-3(a)(1)(B) & -3(a)(2)(A)* |  | Enter RA or Site-Wide |  |
|  | ≤ Appendix D of Water Quality Standards (WQC)  *§22a-133k-3(a)(3)* |  | Enter RA or Site-Wide |  |
|  | ≤ Background §*22a-133k-3(a)(1)(B) & -3(a)(2)(A)* |  | Enter RA or Site-Wide |  |
|  |  | | |  |
|  | **Identify Applicable Methods of Demonstrating SWPC Compliance RA Plume / Site-Wide** | | |  |
|  | *Portion of GW Plume Upgradient of  Discharge to SW Body*  *§22a-133k-3(h)(3)(B)(ii)* | | |  |
|  | All laboratory results ≤ SWPC (or WQC or background). |  | Enter RA or Site-Wide |  |
|  | 95% UCL of at least 12 consecutive monthly samples ≤ SWPC (or WQC or background) for each applicable monitoring location. |  | Enter RA or Site-Wide |  |
|  | COCs ND at the laboratory reporting limit due to matrix interference  *§22a-133k-1(h)(3)*  → Commissioner-approved |  | Enter RA or Site-Wide |  |
|  |  |  |  |  |
|  | *Entire Plume* §*22a-133k-3(h)(3)(B)(ii)* | | |  |
|  | 95% UCL of entire plume ≤ SWPC (or WQC or background) on a seasonal basis. |  | Enter RA or Site-Wide |  |
|  | COCs ND at the laboratory reporting limit due to matrix interference  §*22a-133k-1(h)(3)*  → Commissioner-approved |  | Enter RA or Site-Wide |  |
|  |  |  |  |  |
| Exemptions from compliance with the SWPC apply (incidental sources, pesticide application, technical impracticability). | |  | [Complete Part VI.B.5.](#Part_VI_B5) |  |

| **5. Additional Exemptions Applicable to Background, GWPC, and/or SWPC** | |
| --- | --- |
| Exemptions from compliance with background, the GWPC, and/or the SWPC apply:   * Incidental sources §*22a-133k-3(f)* * Pesticide application §*22a-133k-3(g)* * Technical impracticability §*22a-133k-3(e)* |  |

| **5a. Incidental Sources Exemption (Background, GWPC, SWPC) RA Plume / Site-Wide** | | | |  |
| --- | --- | --- | --- | --- |
| Incidental sources – exempt from compliance with criteria. | |  |  |  |
|  | Public drinking water release – Substances resulting from releases of drinking water from a public water supply system. |  | Enter RA or Site-Wide |  |
|  | Incidental sources of metals, petroleum hydrocarbons, or SVOCs due to:  Normal operation of motor vehicles  Normal paving and maintenance of pavement |  | Enter RA or Site-Wide |  |

| **5b. Pesticide Application Exemption (Background, GWPC, SWPC) RA Plume / Site-Wide** | | |  |
| --- | --- | --- | --- |
| Pesticide application – exempt from compliance with criteria.  [Complete Part IV.A.5](#Part_IV_A5)  → Local director of health notified  → Notice recorded on land records  → Impacts due solely to *application* of pesticides.  → Compliance with pesticide soil standards achieved.  → Nature and extent of pesticides in GW evaluated.  → Potable supply wells on the impacted parcel have been sampled and any exposure pathway to drinking water was eliminated or mitigated.  → Well receptor survey completed. |  | Enter RA or Site-Wide |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **5c. Technical Impracticability (GWPC, SWPC) RA Plume / Site-Wide** | | |  |
| Technical impracticability exemption for GWPC and/or SWPC  → Commissioner-approved |  | Enter RA or Site-Wide |  |

| **6. Volatilization Criteria (VolC)** |
| --- |

| **6a. Compliance with VolC RA Plume / Site-Wide** | | | | |
| --- | --- | --- | --- | --- |
| Volatile compounds were not detected at the Site | |  |  |  |
| Groundwater complies with VolC | |  |  |  |
|  | ≤ Residential (Res) VolC |  | Enter RA or Site-Wide |  |
|  | ≤ Industrial/commercial (I/C) VolC  → EUR recorded/pending |  | Enter RA or Site-Wide |  |
|  |  |  |  |  |
|  | **Identify Applicable Methods of Demonstrating VolC Compliance** | | |  |
|  | Each substance in groundwater  ≤ GW VolC  §*22a-133k-3(c)(1)(C)*  §*22a-133k-3(h)(3)(C)(i)*  → ≤ 30 feet for volatile substances other than volatile petroleum substances  → ≤ 10 feet for volatile petroleum substances |  | Enter RA or Site-Wide |  |
|  | VOCs in groundwater within 15 feet of the ground surface or lowest portion of a building ≤ GW VolC in the table in 22a-133k-1(i)(B)  §*22a-133k-1(i)*  → Prior to 2/16/2021, remediation of VOCs initiated (including public notice) or RAP documenting remediation not necessary submitted to the commissioner  → On or before 2/16/2023, remediation of VOCs completed |  | Enter RA or Site-Wide |  |
|  | Substances exceeding VolC are not at the water table and all analytical results from the uppermost portion of the water column ≤ VolC | §*22a-133k-3(c)(2)(B)* | Enter RA or Site-Wide |  |
|  | Each substance in soil vapor ≤ soil vapor VolC  → Heating and cooling seasons represented by data  §*22a-133k-3(c)(2)(A)*  §*22a-133k-3(h)(3)(C)(ii)* |  | Enter RA or Site-Wide |  |
|  | COCs ND at the laboratory reporting limit due to matrix interference  → Commissioner-approved  §*22a-133k-1(h)(3)* |  | Enter RA or Site-Wide |  |

| **6b. Exemptions from Compliance with VolC RA Plume / Site-Wide** | | | | | |
| --- | --- | --- | --- | --- | --- |
| Exemptions from compliance with the VolC apply. | | |  |  |  |
|  | | | | |  |
|  | *Vapor Mitigation Exemption* §*22a-133k-3(c)(3)* | | | |  |
|  | Exemption from VolC for vapor mitigation  → Measures to prevent migration of VOCs into overlying buildings have been implemented and demonstrated to be effective.  → EUR recorded/pending. | |  | Enter RA or Site-Wide |  |
|  |  | |  |  |  |
|  | *No-Building Exemption* §*22a-133k-3(c)(5)* | | | |  |
|  | Exemption from VolC for no-building restriction.  → No building present over subject GW plume.  → For VOCs (other than petroleum VOCs) that exceed applicable VolC within 30 feet of any part of a building, there is no potential vapor intrusion pathway. | |  | Enter RA or Site-Wide |  |
|  |  | *And one of the following conditions must be satisfied:* |  |  |  |
|  |  | EUR recorded/pending to prohibit construction of a building. |  |  |  |
|  |  | No building can be constructed.  → It has been demonstrated that no building can reasonably be expected to be constructed over the subject groundwater.  → Commissioner approved. |  |  |  |
|  |  | Natural attenuation or other methods of remediation will reduce VOC concentrations to applicable VolC within 5 years.  → Commissioner approved. |  |  |  |
|  |  |  |  |  |  |
|  | *Indoor Air Monitoring Exemption* §*22a-133k-3(c)(6)* | | | |  |
|  | Exemption from VolC through indoor air monitoring.  → Commissioner approved monitoring program.  → ELUR recorded/pending. | |  | Enter RA or Site-Wide |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **7. Other Groundwater Compliance Measures Not Documented Above** | | | |
| If applicable, describe other measures taken to achieve compliance with groundwater remediation standards: | | |  |
| Measures not described above were used to achieve compliance with groundwater standards. | | |  |
|  | Describe Measures: | Enter Text |  |

**Part VII: Appendices & Exhibits**

|  |  |  |  |
| --- | --- | --- | --- |
| Check all that apply and attach appropriate documentation to this Verification Form: | | |  |
| Appendix A – Public Notice Documentation |  |  |  |
| Appendix B – Approvals and Notifications |  |  |  |
| Appendix C – EUR Fact Sheet *and*:   * Certificate of Title (for ELUR) * Updated title search (for NAUL) * Notice of Receipt for title documents submitted to the Department (if available) |  |  |  |
|  |  |  |  |
| Exhibit 1 – Verification Report | Required with all submittals | |  |