

| Lead RTN: | | Site Concerns | Admin/Tech Adequacy | Preliminary actions | Phase I | Tier Classification | Total |
|-----------|--|---------------|---------------------|---------------------|---------|---------------------|-------|
| 4-27363 | | | | | | | |

| Submittal | Received | Screened | Flags | TSNOAF |
|-----------|------------|----------|-------|--------|
| IRASTATUS | 12/27/2018 | 1/9/2019 | N | N |

| Auditor |
|----------|
| A. Jones |

| | |
|------------|---|
| Release | Historic dumping/contaminated fill |
| Site Use | Residential (currently unoccupied/unimproved) |
| Town | Dartmouth |
| Site Name | Residential Lot |
| Address | 85 McCabe Street |
| PRP | Terceira Construction/Jorge Verissimo |
| LSP | Geoffrey Souza, #4122 |
| Consultant | Sitec Environmental |

| | IRA | RAM | URAM | Phase 1 | T-Class |
|--------------|-----|-----|------|---------|---------|
| Plan | | | | | |
| Modification | | | | | |
| Status | x | | | | |
| Monitoring | | | | | |
| Completion | | | | | |

Disclaimer: This checklist is for use by DEP in reviewing Preliminary Response Action (PRA) Statements, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of PRA requirements, which are fully set forth in MGL c. 21E and 310CMR 40.0000. Completion of this checklist by DEP does not constitute a final agency decision, and does not create any legal rights or relieve any party of obligations that exist pursuant to applicable laws.

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| Related RTNs | |
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| Comments |
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LSP proposes further assessment (borings/gw wells) to determine extent of release and to direct future response actions.

| I. SITE CONCERNS (Based upon conditions at time of PRA submittal) | | | | | |
|--|--|------------|-----------|----------|------------|
| A. Indoor Air (Based upon conditions at time of submittal) | | Yes | No | ? | Pg# |
| 1. <input type="checkbox"/> Applicable GW-2 standard exceeded @ residence/school with no soil gas/indoor air sampling | | | x | | |
| 2. <input type="checkbox"/> Site contaminants impacting indoor air | | | x | | |
| B. Groundwater/Drinking Water (Based upon conditions at time of submittal) | | Yes | No | ? | Pg# |
| 1. <input type="checkbox"/> More than 0.5" NAPL observed in any monitoring well | | | x | | |
| 2. Site within potential drinking water source area (PDWSA) | | | x | | |
| 3. Site located within IWPA/mapped Zone II | | | x | | |
| 4. Private/Non-municipal public well(s) (TNC, NTNC) located within 500 feet of site | | x | | | |
| 5. Municipal well(s) located within 1000 feet of site | | | x | | |
| 6. <input type="checkbox"/> Private well contaminated as a result of site | | | x | | |
| 7. <input type="checkbox"/> Public water supply contaminated as a result of site | | | x | | |
| 8. SRM Condition and no groundwater controls | | | x | | |
| C. Soil (Based upon conditions at time of submittal) | | Yes | No | ? | Pg# |
| 1. IH levels of Arsenic (40), Cadmium (60), Chromium (200), Cyanide (100), Mercury (300), Methyl Mercury (10), or PCBs (10) in surface soil (< 1 foot) | | | x | | |
| D. Environmental Concerns | | Yes | No | ? | Pg# |
| 1. Site within 500 feet of surface water and/or wetlands | | x | | | |
| 2. Endangered species habitat, ACEC and/or certified vernal pool within 500 feet | | | x | | |
| 3. Confirmed contamination of surface water, sediments and/or wetlands with site contaminants | | | x | | |
| 4. SRM condition | | | x | | |
| E. Site & Area Use (Choose all that apply) | | Yes | No | ? | Pg# |
| 1. School/Institution/Playground | | | x | | |
| 2. Residential | | x | | | |
| F. Released OHM (Primary Contaminant Type(s)) | | Yes | No | ? | Pg# |
| 1. Petroleum Fuel Oils (#2, #4, #6, Jet fuel, kerosene, lube oil, MODF, etc.) | | | | x | |
| 2. Gasoline, waste oil | | | | x | |
| 3. Metals, coal tar, PCBs, pesticides/herbicides, asbestos, PAHs, cyanide | | x | | | |
| 4. Chlorinated solvents or other organic compounds | | | | x | |
| G. Site Complexity (Check all that apply) | | Yes | No | ? | Pg# |
| 1. Co-mingled plumes (i.e., different sources from one or more sites co-mingled) | | | x | | |
| 2. Bedrock contamination | | | x | | |
| If 0 conditions currently exist, see supervisor to discuss. | | | | | |

RTN:_____

TOWN:_____

DATE:_____

| II. ADMINISTRATIVE ADEQUACY: | | | | | | Yes | No | ? | NA | Pg # | Citati |
|---|--------|-----------|---|--|--|-----|----|---|----|------|--------------------------------------|
| A. Regulatory Deadlines | | | | | | | | | | | |
| 1. Notification Made On Time | Date: | 7/30/2018 | x | | | | | | | | 40.0300 |
| 2. Phase I/TC within 1 yr of notification; Effective Date/Tier | | | | | | | | x | | | 40.0406 |
| 3. Phase II submitted within 3 years of Tier Classification Date | | | | | | | | x | | | 40.0560(2)(b) |
| 4. Phase III submitted with 4 years of Tier Classification Date | | | | | | | | x | | | 40.0560(2)(c) |
| 5. Phase IV submitted within 4 years of Tier Classification Date | | | | | | | | x | | | 40.0560(2)(d) |
| 6. P/TS submitted within 5 years of Tier Classification Date | | | | | | | | x | | | 40.0560(2)(e) |
| 7. Tier II Extension: submitted/ # of Extensions | | | | | | | | x | | | 40.0560(7) |
| 8. For IRAs, submittal deadlines have been met: Plan within 60 days. | | | | | | | | x | | | 40.0404(2) |
| 9. For IRAs, submittal deadlines have been met : Status Report within 120 days and every 6 months from approval or receipt of Plan, Completion Report within 60 days following completion of IRA activities, Remedial Monitoring Report monthly for IH/SRM or every 6 months for non-IH/SRM | | | x | | | | | | | | 40.0425(1), (2), (7) |
| 10. For RAMs, submittal deadlines have been met: Status Report within 120 days and every 6 months from approval or receipt of Plan, Remedial Monitoring Report every 6 months. | | | | | | | | x | | | 40.0404(2) |
| 11. For RAMs, submittal deadlines have been met: Completion Report within 60 days following completion of RAM activities, | | | | | | | | x | | | 40.0446(1) |
| 12. For URAMs, submittal deadlines have been met (Letter of Intent within 7 days) | | | | | | | | x | | | 40.0404(2) |
| 13. For URAMs, submittal deadlines have been met (Status Report within 120 days and every 6 months from notification, Completion Report within 60 days following completion of URAM activities, Remedial Monitoring Report every 6 months) | | | | | | | | x | | | 40.0465(1)(5) |
| III. TECHNICAL ADEQUACY: | | | | | | Yes | No | ? | NA | Pg # | |
| A. Response Action Type | | | | | | | | | | | |
| 1. Assessment Only | | | x | | | | | | | | 40.0332 |
| 2. Innovative Technology | | | | | | | | x | | | |
| 3. Soil Excavation | Volume | | | | | | | x | | | |
| a. Recycle | | | | | | | | x | | | |
| b. Landfill | | | | | | | | x | | | |
| c. Reuse | | | | | | | | x | | | |

RTN:_____

TOWN:_____

DATE:_____

| | | | | | | |
|---|-----|----|---|----|------|----------------------------|
| d. Treat/Stabilize | | | | x | | |
| 4. Cap/Cover/Engineered Barrier | | | | x | | |
| a. Ph III was completed before a cap/engineered barrier was proposed or constructed as part of a Permanent Solution | | | | x | | 40.0414(7) |
| 5. Construction of Building in Contaminated Area | | | | x | | |
| 6 Groundwater Treatment | | | | x | | |
| a. Pump & Treat | | | | x | | |
| b. Removal (Vacuum) | | | | x | | |
| c. Free Product Recovery | | | | x | | |
| d. Bioremediation: Application within 50' surface water/100' private well/800' public well or within 100 ft of a school, daycare, child care, or occupied residential dwelling. | | | | x | | 40.0046(3) |
| 7. Venting/Sub Slab Depressurization System | | | | x | | |
| 8. Soil Vapor Extraction/Air Sparging | | | | x | | |
| 9. Chemical Oxidation | | | | x | | |
| a. Application within 50' surface water/100' private well/800' public well | | | | x | | 40.0046(3) |
| B. Description of Response Actions – Indication That: | | | | | | |
| | Yes | No | ? | NA | Pg # | |
| 1.a Plan/Status Report/Completion Report is adequate/complete (IRA/RAM) | x | | | | | 40.0420 |
| 1.b Plan/Status Report/Completion Report is adequate/complete (URAM) | | | | x | | 40.0460 |
| 2.a IRA Response actions taken were in accordance with MassDEP approvals (i.e., special conditions, Interim deadlines, etc.) | x | | | | | 40.0404(1) |
| 2.b RAM/URAM Response actions taken were in accordance with MassDEP approvals (i.e., special conditions, Interim deadlines, etc.) | | | | x | | 40.0443(3) |
| 3. Response actions proposed or taken demonstrate the level of diligence necessary, consider relevant policies, methods or practices, or have been technically justified | x | | | | | 40.0191 |
| 4. Monitoring of response actions is adequate (soil, groundwater, air, dust, etc.) | | | x | | | 40.0405(2) |
| 5. Analytical or environmental monitoring data is scientifically valid and defensible, and of a level of precision and accuracy commensurate with its stated or intended use | x | | | | | 40.0017 |
| 6. System shutdown/operational problems | | | | x | | 40.0027 |

| IV. Preliminary Response Action Type | | | | | | Yes | No | ? | NA | Pg# | Citation(s) |
|--|--|---|--|--|--|-----|----|---|----|-----|------------------------------------|
| A. Immediate Response Actions (required for 2/72-hr release) – Indication That: | | | | | | | | | | | |
| 1. Release/TOR has been adequately assessed or additional assessment is planned | | x | | | | | | | | | 40.0405 |
| 2. An Imminent Hazard condition has been eliminated/controlled | | x | | | | | | | | | 40.0427 |
| 3. A condition of Substantial Release Migration has been mitigated | | | | | | | | | x | | 40.0414 |
| 4. An Imminent Hazard condition has been assessed | | | | | | | | | x | | 40.0414(3)&(4) |
| 5. . Excavation and stockpiling of >100 cyds (cum.) UST-related oil- or waste oil- contaminated soil before notification | | | | | | | | | x | | 40.0421(3) |
| B. Release Abatement Measures – Indication That: | | | | | | | | | | | |
| 1. Off-site disposal of > 500 cubic yards (cumulative) of OHM-contaminated soil | | | | | | | | | x | | 40.0442(2)(a) |
| 2. On or off-site treatment, recycling, or reuse of > 1500 cubic yards (cum.) of OHM contaminated soil | | | | | | | | | x | | 40.0442(2)(b) |
| 3. Certification of sufficient financial resources if excavation of >1500 cyds (cum.) OHM contaminated soil | | | | | | | | | x | | 40.0442(5) |
| 4. RAM was initiated within one year of receipt of RAM Plan | | | | | | | | | x | | 40.0443(5) |
| 5. RAM fee paid, if prior to Tier Classification/PTS | | | | | | | | | x | | 40.0444(2) |
| C. Utility-related Abatement Measures – Indication That: | | | | | | | | | | | |
| 1. During emergency repair, notification provided within 72-hours of conducting URAM | | | | | | | | | x | | 40.0462(3) |
| 2. A 2-hour or 72-hour reporting condition likely exists | | | | | | | | | x | | 40.0461(3) |
| 3. Excavation of >100 cyds (cum) oil- or waste oil-contaminated soil (LSP required) | | | | | | | | | x | | 40.0462(4)(a) |
| 4. Excavation of >20 cyds (cum.) haz. mat.-contaminated soil or mix (LSP required) | | | | | | | | | x | | 40.0462(4)(b) |
| 5. Temporary relocation of soil is returned to site or otherwise managed within 14 days | | | | | | | | | x | | 40.0462(6) |
| 6. Reasonable attempt made to notify property owner, except during non-business-hour emergency repairs | | | | | | | | | x | | 40.462(7) |

| V. Phase I – Initial Site Investigation – Information Regarding: | | | | | | Citation(s) |
|--|----|---|----|-----|--|-------------------------------------|
| Yes | No | ? | NA | Pg# | | |
| A. General site information including: | | | | | | |
| 1. Address and Geographical Location (Street, Lat./Long. and UTM Coordinates) | | | x | | | 40.0483(1)(a)(2) |
| 2. Disposal Site Locus Map with 500 foot and ½ mile radii | | | x | | | 40.0483(1)(a)(3) |
| 3. Estimated number of workers on-site | | | x | | | 40.0483(1)(a)(4) |
| 4. Estimated residential population within ½ mile | | | x | | | 40.0483(1)(a)(5) |
| 5. General description of land uses surrounding the disposal site | | | x | | | 40.0483(1)(a)(6) |
| 6. Number of Institutions within 500 feet | | | x | | | 40.0483(1)(a)(7) |
| 7. Natural Resources within 500 feet (surface waters, wetlands, drinking water supplies, ACECs, etc.) | | | x | | | 40.0483(1)(a)(8) |
| B. Disposal Site Map, including: | | | | | | |
| Yes | No | ? | NA | Pg# | | |
| 1. Disposal Site Boundaries | | | x | | | 40.0483(1)(b)(1) |
| 2. Property boundaries located within the disposal site boundaries | | | x | | | 40.0483(1)(b)(2) |
| 3. On-site buildings | | | x | | | 40.0483(1)(b)(3)(a) |
| 4. Floor and storm drains | | | x | | | 40.0483(1)(b)(3)(b) |
| 5. Subsurface utilities | | | x | | | 40.0483(1)(b)(3)(c) |
| 6. OHM storage and disposal structures | | | x | | | 40.0483(1)(b)(3)(d) |
| 7. Location of known OHM releases | | | x | | | 40.0483(1)(b)(3)(e) |
| 8. Monitoring wells, borings, test pits, and other relevant screening and/or sampling points | | | x | | | 40.0483(1)(b)(3)(f) |
| C. Disposal Site History, including: | | | | | | |
| Yes | No | ? | NA | Pg# | | |
| 1. Owner/Operator and Operations History | | | x | | | 40.0483(1)(c)(1) |
| 2. Release History (source and locations, cause, approx. date and duration, type of OHM, volume, etc.) | | | x | | | 40.0483(1)(c)(2) |
| 3. OHM Use and Storage History (type, chemical name, uses, quantities, periods, storage locations) | | | x | | | 40.0483(1)(c)(3) |
| 4. Waste Management History (land disposal, subsurface, surface water, WWTP, etc.) | | | x | | | 40.0483(1)(c)(4) |
| 5. Environmental Permits and Compliance History (21E, OHM, WW, GW, Air, RCRA, NPDES permits) | | | x | | | 40.0483(1)(c)(5) |

| | | | | | | |
|--|--|--|--|---|--|----------------------------------|
| 6. Potentially Responsible Parties (names and addresses of all PRPs) | | | | x | | 40.0483(1)(c)(6) |
|--|--|--|--|---|--|----------------------------------|

| | | | | | | | | | | |
|--|--|--|--|--|------------|-----------|----------|-----------|------------|----------------------------------|
| D. Site Hydrogeological Characteristics, including: | | | | | Yes | No | ? | NA | Pg# | |
| 1. Concise description of all subsurface investigations and assessments to date | | | | | | | | x | | 40.0483(1)(d)(1) |
| 2. Documentation of boring advancement, well construction and development, including drilling logs | | | | | | | | x | | 40.0483(1)(d)(2) |
| 3. Characterization of general site topography (slope, bedrock outcrops, surface drainage features) | | | | | | | | x | | 40.0483(1)(d)(3) |
| 4. Characterization of geologic and stratigraphic conditions | | | | | | | | x | | 40.0483(1)(d)(4) |
| 5. Description and graphical depiction of groundwater flow direction including monitoring well locations | | | | | | | | x | | 40.0483(1)(d)(5) |
| E. Nature and Extent of Contamination, including: | | | | | Yes | No | ? | NA | Pg# | |
| 1. Evidence of releases (visual, olfactory, field screening, lab analysis, historical knowledge) | | | | | | | | x | | 40.0483(1)(e)(1) |
| 2. Names, concentrations, and volumes of released OHM | | | | | | | | x | | 40.0483(1)(e)(2) |
| 3. Laboratory data sheets | | | | | | | | x | | 40.0483(1)(e)(3) |
| 4. Details on approximate horizontal and vertical extent | | | | | | | | x | | 40.0483(1)(e)(4) |
| 5. Details on presence and thickness of non-aqueous phase liquids | | | | | | | | x | | 40.0483(1)(e)(5) |
| F. Migration Pathways and Exposure Potential, including | | | | | Yes | No | ? | NA | Pg# | |
| 1. Description and evaluation of known and potential migration by air, soil, groundwater, surface water | | | | | | | | x | | 40.0483(1)(f)(1) |
| 2. Description of known and potential human exposure by inhalation, dermal contact, or ingestion of OHM | | | | | | | | x | | 40.0483(1)(f)(2) |
| 3. Description of known and potential impacts to environmental receptors, especially ACECs, etc. | | | | | | | | x | | 40.0483(1)(f)(3) |
| G. Evaluation of the need for Immediate Response Actions | | | | | Yes | No | ? | NA | Pg# | |
| 1. Evaluated the need for Immediate Response Actions | | | | | | | | x | | 40.0483(1)(g) |
| H. Conclusions | | | | | Yes | No | ? | NA | Pg# | |
| 1. Presented a summary of findings and a statement of conclusions | | | | | | | | x | | 40.0483(1)(h) |
| I. Technical Justification for omission of any of the above categories | | | | | Yes | No | ? | NA | Pg# | |
| 1. Presented technical justification for omission of any of the above categories | | | | | | | | x | | 40.0483(2) |

| VI. Tier Classification – Numerical Ranking System: | | | | | | Citation(s) |
|---|-----|----|---|----|-----|---------------------------------|
| | Yes | No | ? | NA | Pg# | |
| 1. A Phase I Report (or equivalent) was prepared in accordance with 40.0480 | | | | x | | 40.0510(1)(a) |
| 2. Tier I Criteria (Zone II, IWPA, GW > RCGW-1) are present at the site | | | | x | | 40.0520(2)(a) |
| 3. The site is Tier I as a result of an Imminent Hazard | | | | x | | 40.0520(2)(b) |
| 4. Risk Reduction measures resulted in a lower Tier Classification | | | | x | | 40.0520(1)(c) |
| 5. The site Classification was correct; or the site was correctly reclassified after Tier 1 Criteria were eliminated. | | | | x | | 40.0520(3) |
| 6. DEP review raised the original classification | | | | x | | 40.0530(1), (2) |