

## Level 1 Technical Screening Form: PRA, CRA, PTS

Lead RTN:	Related RTNs:	PRP:
	Town:	Address:
Date Rcvd: _____	<b>Site use:</b> <input type="checkbox"/> Residential <input type="checkbox"/> School <input type="checkbox"/> Daycare <input type="checkbox"/> Commercial <input type="checkbox"/> Recreational/Open Space	<b>OHM released:</b> <input type="checkbox"/> gasoline <input type="checkbox"/> oil <input type="checkbox"/> TCE <input type="checkbox"/> chlorinated VOCs <input type="checkbox"/> metals <input type="checkbox"/> PCBs <input type="checkbox"/> other _____
Date Screened: _____	<b>Area use:</b> <input type="checkbox"/> mixed <input type="checkbox"/> rural <input type="checkbox"/> commercial <input type="checkbox"/> urban <input type="checkbox"/> residential <input type="checkbox"/> suburban <input type="checkbox"/> vacant/future development <input type="checkbox"/> other:	<b>Source of OHM:</b>
Rcv'd by due date? <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>GW category:</b> <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3	<b>Media impacted:</b> <input type="checkbox"/> indoor air <input type="checkbox"/> soil <input type="checkbox"/> groundwater <input type="checkbox"/> sediments <input type="checkbox"/> surface water <input type="checkbox"/> drinking water <input type="checkbox"/> ecologically sensitive area (list) _____
<b>SUBMITTAL TYPE(s):</b> <input type="checkbox"/> IRA <input type="checkbox"/> RAM <input type="checkbox"/> Status Report <input type="checkbox"/> Tier Classification <input type="checkbox"/> Phase <input type="checkbox"/> Permanent Solution <input type="checkbox"/> Temporary Solution <input type="checkbox"/> Other _____	<b>Soil category:</b> <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3	

**Based upon conditions at time of specified submittal**

I. CRA or PRA submittals	Yes	No	?	Page
1. Remedial additives injected within 100' of: <input type="checkbox"/> daycare <input type="checkbox"/> residences <input type="checkbox"/> schools, etc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Remedial additives injected within 50' of a waterbody; 800' of a water supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Potential human and/or environmental receptors not evaluated as part of Risk Characterization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. <input type="checkbox"/> ROUTES OF EXPOSURE	Yes	No	?	Page
1. Applicable GW-2 standard exceeded with no soil gas/indoor air sampling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. CEP present and not mitigated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Complete indoor air pathway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Site contaminants impacting indoor air above TVs and not mitigated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Unstable NAPL still present and uncontrolled at site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Contaminated drinking water supply (public or private wells) as a result of site; GW-1 area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. IH condition exists in soil and not abated; Surficial soil contamination > S-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. EPCs in S-1 soils exceed Method 1 Standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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	<input type="checkbox"/>			
9. Confirmed contamination of surface water, sediments, wetlands, ACEC/sensitive habitat or within 50 feet of surface water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>			
<b>III. TECHNICAL ADEQUACY</b>	<b>Yes</b>	<b>No</b>	<b>?</b>	<b>Page</b>
	<b>NA</b>			
1. Incomplete definition of contamination in any media (including downgradient)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. EPC not properly calculated (maximum concentration, mean, 75%/10x, upper confidence limit)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Method 3 Human Health: Non-Cancer Risks > HI of 1, ELCR > than 1x10 <sup>-5</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. CSM not provided with documentation including sources, site history, hydrogeology, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. VOCs in soil near building or hazmat/NAPL within 200 ft of surface water not assessed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>IV. Permanent Solution</b>	<b>Yes</b>	<b>No</b>	<b>?</b>	<b>NA</b>
				<b>Page</b>
1. Permanent Solution criteria are not met or not demonstrated at closure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Site relies on implementation of: <input type="checkbox"/> AEPMM <input type="checkbox"/> AUL <input type="checkbox"/> engineered barrier <input type="checkbox"/> other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Relies on conditions (gardening BMPs, anthropogenic bkgd, ROW, future bldg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Groundwater or Soil OHM EPCs > UCLs (not consistent with natural background)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>V. Temporary Solution</b>	<b>Yes</b>	<b>No</b>	<b>?</b>	<b>NA</b>
				<b>Page</b>
1. All sources of OHM, non-stable NAPL: <input type="checkbox"/> not eliminated <input type="checkbox"/> not controlled <input type="checkbox"/> not controlled to extent feasible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Phases of dissolved OHM in groundwater or vapor phase OHM in vadose zone not stable or contracting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. No valid Tier Classification in effect at time of submittal and further response actions are planned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Temporary Solution criteria are not met (Substantial Hazard exists, Phase II incomplete; Feasibility evaluation not valid)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>If <input checked="" type="checkbox"/> conditions currently exist, see supervisor to discuss.</b>				

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II. TECHNICAL ADEQUACY	Citation(s)					
A. Remedial Response Actions:		Yes	No	?	NA	Page
1. Documentation (BOL, HWM, etc.) of removal/treatment of contaminated soil was provided	40.0030	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Remediation waste properly managed (Air [95%], GW [permit], SW [NPDES])	40.0031-40.0049	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B. Source/Extent Investigations:		Yes	No	?	NA	Page
1. History of OHM use/storage/disposal at the site included	40.0405(1), 40.0835(4)(c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Potential site activities, uses, source(s) identified, characterized, or abated (septic leach field, floor drain, AST, etc.)	40.0923(2), 40.1004	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. All relevant and appropriate media and associated migration pathways evaluated (soil, groundwater, surface water, air, sediment, food)	40.0904(2)(c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Potential or actual OHM analyzed for and/or evaluated (metals, VPH, VOCs, etc.)	40.0904(3)(a), 40.0926(1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Proper sample collection technique/preservation//holding times/surrogate recovery, etc.	40.0017(2-3), 40.1056(1)(j)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C. Risk Characterization:		Yes	No	?	NA	Page
1. Correct risk characterization method used (relative to indoor air, surface water, sediment, etc.)	40.0941, 40.0942	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Background identified or characterized	40.0904(2)(b), 40.1020	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. All receptors accounted for (human, environmental) or AUL applied	40.0920-40.0922	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Site activities and uses identified (current, future, any limitations that were assumed)	40.0923	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Exposure points identified (GW & soil for all RC Methods, other media for Methods 2 & 3)	40.0924	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. All exposure pathways identified and evaluated (inhalation, ingestion, dermal, etc.)	40.0925	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. EPC calculation(s)/equations provided (including spatial and/or temporal, etc.)	40.0926	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. EPC properly calculated (maximum concentration, 75%/10x, upper confidence limit)	40.0926(3)(a),(b),(c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Soil/groundwater categories properly identified (including Aquifer Protection Districts)	40.0930	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Applicable soil and/or GW standards not exceeded (Method 1 or 2) or AUL applied	40.0973(7), 40.0988(2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Method 3 Environmental Risk Characterization – Stage 1 or 2 was completed, if applicable	40.0995	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Method 3 Human Health: Non-Cancer Risks < HI of 1, ELCR < than 1x10 <sup>-5</sup>	40.0993(6),(7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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III. Permanent or Temporary Solutions (General Provisions):	40.1003	Yes	No	?	NA	Page
1. Correct Solution was selected (either Permanent or Temporary Solution)	40.1003	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Location clearly and accurately identified (either Permanent or Temporary Solution)	40.1003(4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. OHM Sources eliminated or controlled for Permanent Solution; eliminated or controlled to extent feasible if Temporary Solution	40.1003(5) (b), (c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Migration Control of dissolved OHM in groundwater or vapor-phase OHM in vadose zones: stable or contracting for Permanent Solution; stable, contracting, controlled or mitigated to the extent feasible for Temporary Solutions	40.1003(6)(a),(b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. NAPL: Permanent Solution: NAPL adequately assessed and if necessary, remediated: Non-stable NAPL not present under current site condition and for foreseeable future; and all NAPL with micro-scale mobility is removed if and to the extent feasible based on CSM principles	40.1003(7)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. NAPL: Temporary Solution: NAPL adequately assessed and if necessary, remediated: Non-stable NAPL and NAPL with micro-scale mobility is removed and/or controlled if to the extent feasible	40.1003(7)(b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Feasibility: evaluation of feasibility has been conducted using criteria from 310 CMR 40.0860	40.1003(8)					
8. Content of PTS Solution (complete, defensible, precise, accurate, complete) is included	40.1056. 40.1057	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
A. Permanent Solutions with no conditions (requirements):		Yes	No	?	NA	Page
1. A condition of No Significant Risk exists or has been achieved	40.1040(1)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. All sources of OHM have been eliminated or controlled	40.1040(1)(b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. All plumes of dissolved OHM in groundwater and/or vapor-phase OHM in vadose zone and NAPL controlled as specified in 310 CMR 40.1003(6)(a)	40.1040(1)(c),(d)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. All Threats of Release have been eliminated	40.1040(1)(e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Level of OHM concentrations in the environment reduced to or as close to Background as feasible	40.1040(1)(F), 40.1020	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B. Permanent Solution with Conditions:		Yes	No	?	NA	Page
1. The level of OHM at the site <i>has not been</i> reduced to background unless such levels are consistent with anthropogenic background and do not exceed UCLs	40.1036(1)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Threats of Release Only: all TORs were eliminated, and a release of OHM has <i>not</i> occurred; OHM in soil that exceeds UCLs beneath an engineered barrier or > 15 ft BGS	40.1036(1)(b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Permanent Solution depends on Activity and Use Limitation (AUL)	40.1012(2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Permanent Solution depends on Active Exposure Pathway Mitigation Measures (AEPMM) Measures (AEPMM) and UCL Feasibility Evaluation not valid	40.1036(2)(c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C. Temporary Solutions:		Yes	No	?	NA	Page
1. A condition of No Substantial Hazard exists	40.1050(1)(a), 40.1051(1, 2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. ID, characterization, elimination, and control or mitigation of OHM release has been demonstrated	40.1050(1)(b), 40.1056(2)(d)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Soil and/or groundwater concentrations exceed applicable or analogous standards or UCLs	40.1050(2)(a, b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Phase II and Phase III reports were submitted, or DPS Opinion was submitted	40.1050(3), 40.1050(4)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. A plan with definitive and enterprising steps toward a Permanent Solution has been submitted	40.1051(3)(a), 40.1051(4)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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6. Valid feasibility evaluation - Permanent Solution currently cannot be achieved.	40.1051(1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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