

Lead RTN:		Section 1	Section 2	Section 3	Total
4-29773					0

Submittal	Received	Screened	Flags	TS NOAF	No Report	Insufficient
PSS	3/29/2023	4/6/2023				

Auditor
A. Jones

Release	Wood poles/chromated copper arsenate
Site Use	Dual use solar (solar/cranberry bogs)
Town	Carver
Site Name	Solar Carver I
Address	0 Tremont Street
PRP	Pine Gate Renewables
LSP	Stephen A Vetere, #3507
Consultant	Mabbett

	RC	GW	S	W/Cond	AEPMM
1	x	x	x		
2				AUL	ROS
3		x			

Disclaimer: This checklist is for use by DEP in reviewing Permanent/Temporary Solution (P/TS) Statements, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of P/TS 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

Related RTNs

Comments

I. SITE CONCERNS (Based upon conditions at time of P/TS submittal)					
A. Air - Check All That Apply		Yes	No	?	Pg#
1. <input type="checkbox"/> > Applicable GW-2 standard @ residence/school with no soil gas/indoor air sampling			x		
2. <input type="checkbox"/> Site contaminants impacting indoor air			x		
B. Drinking Water/Groundwater - Check All That Apply		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) (i.e. 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, still in use (no filter, no public water, etc.)			x		
7. <input type="checkbox"/> Public water supply contaminated as a result of site, no filters or other mitigation.			x		
C. Contaminated Soil at Public School or Residence - Check All That Apply		Yes	No	?	Pg#
1. EPC in S-1 soil exceeds Method 1 Standard			x		
2. Bioaccumulating compounds (i.e. Hg, Pb, PCBs, etc) detected less than 1 foot deep			x		
3. IH Compounds (arsenic, cadmium, chrome VI, cyanide) detected less than 1 foot deep			x		
D. Environmental Concerns - Check All That Apply		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 and no groundwater controls			x		
E. Site & Area Use - Check All That Apply		Yes	No	?	Pg#
1. Industrial use or public Right of Way (children not likely to be present)			x		
2. Commercial (limited presence of children)		x			
3. School/Institution (pre-K through high school, not college/university)			x		
4. Residential			x		
F. Released OHM (Primary Contaminant Types(s)) - Check All That Apply		Yes	No	?	Pg#
1. Petroleum Fuel Oils (e.g. #2, #4, #6, JP-4, JP-8, kerosene, lube oil, MODF, etc.)			x		

2. Gasoline, waste oils, Aviation Fuel (AVGAS, Jet A, etc.)		x		
3. Metals, coal tar, PCBs, pesticides/herbicides, asbestos, cyanide	x			
4. Chlorinated Solvents, perchlorate or other organic compounds		x		
G. Site Complexity (Check all that apply) - 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 <input type="checkbox"/> conditions currently exist, see supervisor to discuss.				

II. Technical Adequacy						
A. Remedial Response Actions:	Yes	No	?	NA	Pg #	Citati
1. Documentation (BOL, HWM, etc.) of removal/treatment of contaminated soil was provided				x		40.0034(5), (6)
2. Remediation waste properly managed (Air [95%], GW [permit], SW [NPDES])				x		40.0031-40.0049
B. Source/Extent Investigations:	Yes	No	?	NA	Pg #	
1. History of OHM use/storage/disposal at the site included	x					40.0405(1)
2. Potential source(s) identified, characterized, or abated (septic leach field, floor drain, AST, etc.)	x					40.0923(2)
3. All migration pathways evaluated (soil, groundwater, surface water, air, sediment, food)	x					40.0904(2)(c)
4. Extent of contamination defined (including downgradient)	x					40.0904(2)(a)
5. Potential or actual OHM analyzed for and/or evaluated (metals, VPH, VOCs, etc.)	x					40.0904(3)(a)
6. Proper sample collection technique/preservation/analysis/data reporting	x					40.0017
C. Risk Characterization :	Yes	No	?	NA	Pg #	
1. Correct risk characterization method used (relative to indoor air, surface water, sediment, etc.)	x					40.0941
2. Background identified or characterized	x					40.0904(2)(b)
3. All receptors accounted for (human, environmental) or AUL applied	x					40.0920-40.0922
4. Site activities and uses identified (current, future, any limitations that were assumed)	x					40.0923
5. Exposure points identified (GW & soil for all RC Methods, other media for Methods 2 & 3)	x					40.0924
6. All exposure pathways identified and evaluated (inhalation, ingestion, dermal, etc.)	x					40.0925
7. Hot Spot(s) addressed, identified (as Hot Spot) and not added in to other EPCs				x		40.0924(4)
8. EPC calculation(s)/equations provided (including spatial and/or temporal, Hot Spots, etc.)	x					40.0926
9. EPC properly calculated (maximum concentration, 75%/10x, upper confidence limit)	x					40.0926(3)(a),(b),(c)
10. Soil/groundwater categories properly identified	x					40.0930
11. Applicable soil and/or GW standards not exceeded (Method 1 or 2) or AUL applied	x					40.0973(7)
12. Characterization of Risk to Safety is included (all methods)	x					40.0960
13. Method 3 Public Welfare Risk Characterization is included				x		40.0994
14. Method 3 Environmental Risk Characterization – Stage 1 or 2 was completed, if applicable				x		40.0995
15. Method 3 Human Health: Non-Cancer Risks < HI of 1, ELCR < than 1x10 ⁻⁵				x		40.0993(6),(7)

III. General Provisions for Permanent & Temporary Solutions (PTS)						Yes	No	?	NA	Pg #	
1. Correct PTS was selected						x					40.1030 – 40.1050
2. Site boundaries delineated and referenced to permanent landmarks or surveyed boundaries						x					40.1003(4)
3. Relationship of this PTS to other PTS and/or other required response action are needed for the property has been defined						x					40.1056(1)(d)
4. Data Usability Assessment (scien. valid & defensible, precise, accurate, complete) is included						x					40.1056(1)(j)
5. Data Representativeness Evaluation (adequate spatial and temporal data) is included						x					40.1056(2)(k)
A. General Requirements:						Yes	No	?	NA	Pg #	
1. A background feasibility evaluation is included						x					40.1020(3)
2. A Permanent Solution has been achieved						x					40.1040(1)
3. All sources have been eliminated or controlled						x					40.1040(1)(b)
Permanent Solutions with no conditions:						Yes	No	?	NA	Pg #	
General - the Requirements of 40.1040(1) and 40.1041(1) are met						x					40.1040(1)
1. The level of OHM at the site have been reduced to as close to background levels as feasible.						x					40.1040(1)(f)
2. OHM does not exceed UCL in soil or groundwater unless the concentrations are consistent with Natural Background.						x					40.1041(b)
3. A condition of No Significant Risk exists and will be maintained without on assumed limitations of future site use or activities						x			x		40.1041(1)(c)
4. Threats of Release Only: all TORs were eliminated, and a release of OHM has <i>not</i> occurred											40.1041(1)(d)
Permanent Solutions With Conditions:						Yes	No	?	NA	Pg #	
1. The Requirements of 40.1041(1) are met									x		10.1041(2)(a)
2. OHM does not exceed an applicable UCL unless the concentrations are consistent with Anthropogenic Background or the OHM is located at a depth at least 15 feet below the ground surface or an engineered barrier and it is not feasible to reduce the OHM.									x		10.1041(2)(b)
Temporary Solutions:						Yes	No	?	NA	Pg #	
1. A condition of No Substantial Hazard exists									x		40.1050(1)(a)
2. Sources of OHM have been identified, characterized, eliminated or controlled as specified at 40.1003(5)(a) and (c)									x		40.1050(1)(b)
3. Control of plumes of dissolved OHM in groundwater, and vapor-phase OHM in the vadose zone has been achieved to the extent feasible per 40.1003(6)(b)									x		40.1050(1)(c)
4. NAPL, if present, has been addressed as specified in 40.1003(7)(b)									x		40.1050(1)(d)

5. Phase II and Phase II reports were submitted, or DPS Opinion was submitted				x		40.1050(2)
6. A valid Phase III evaluation concludes that either response actions are not currently feasible or are feasible and need to be continued toward a Permanent Solution				x		40.1050(1)(e)1..2.
For Temporary Solutions where response actions are feasible:						
1. A plan is included that presents definitive and enterprising steps toward a Permanent Solution.				x		40.1050(5)(a)
2. A valid Tier Classification submitted with the Temporary Solution and be maintained throughout response actions				x		40.1050(5)(b)
For Temporary Solutions where Response actions are not feasible:						
1. Valid feasibility evaluation demonstrates that - Permanent Solution currently cannot be achieved.(unless valid DPS submittal has been submitted with the Temporary Solution Statement)				x		40.1050(1)(e)1
2. A copy of a plan that presents definitive and enterprising steps toward achieving a Permanent Solution				x		40.1050(4)(a)
3. A periodic review of the Temporary Solution shall be conducted every fifth year after filing the Temporary Solution until such time as a Permanent Solution is submitted.				x		40.1050(4)(b)
4. All elements of a Periodic Review are included including effectiveness of the Temporary Solution, any changes in site uses or activities, evaluation of any AUL in maintaining conditions of No Substantial Hazard, description of response actions, description of type and frequency of monitoring, etc., as outlined in 40.1050(4)(b) 1 through 7.				x		40.1050(4)(b)1.-7
2. Site has a valid Tier Classification				x		40.1050(5)(b)

40.1056(2)(a)
40.1056(2)(k)
40.0860
40.1041(1)
40.0860
40.1056(2)(d)

<u>40.1050(1)(e)2</u>
<u>40.0800</u>
<u>40.0180</u>