

Pennsylvania Act 2 Land Recycling Program

Separate Phase Liquid Screening Checklists

Immediate Dangers			
Questions	yes?	no?	Comments
1. Was separate phase liquid released or spilled?			
2. Was separate phase liquid released to surface (e.g., ground surface or water body)?			
3. Or was the separate phase liquid released to subsurface (i.e., underground)?			
4. Is separate phase liquid discharging to surface water (e.g., river, lake, pond, stream, etc.)?			
Or is the separate phase liquid release near a surface water body (i.e., within _____ feet)?			
5. Is the separate phase liquid release contained? If no, contact emergency services.			
6. Are the source(s) of the separate phase liquids known? If yes, specify source and date of the release.			
7. Are potential receptors protected?			
8. Are there buildings nearby the location of the release?			
If yes, do these buildings have basements?			
If yes, monitor for leaching of separate phase liquid and vapor intrusion?			
9. Have separate phase liquids been observed in soil samples or ground water monitoring wells?			
10. Separate phase liquid plume growing or moving?			
11. Is separate phase liquid plume stabilized?			

Immediate Dangers (continued)

Questions	yes?	no?	Comments
12. If separate phase liquid plume is growing or moving, are control measures implemented? And where:			
At leading edge of plume?			
Within plume core?			
At site boundary?			
Other controls? And list type.			
13. Is the subsurface release of separate phase liquid near underground utilities (i.e., within _____ feet)?			
14. Is there potential of direct contact with the separate phase liquid due to excavation?			
15. Potential for future separate phase liquid releases mitigated?			
16. Are basements, under ground crawl spaces, subsurface utilities or any other potential subsurface exposure points present on the property or the adjoining properties?			
17. Is the separate phase liquid present in wells at the point of compliance?			
18. What are the land uses for the adjoining property(ies)			
Residential?			
Commercial?			
Industrial?			
Open Areas?			

Conceptual Model

Questions	yes?	no?	Comments
1. Is separate phase liquid plume delineated?			
2. SPL plume size is:			
Shrinking?			
Stable?			
Growing? If yes, see immediate dangers			
3. SPL daughter plumes (i.e., compounds of concern) defined and delineated within ground water?			
4. SPL daughter plumes are:			
Shrinking?			
Stable?			
Growing?			
5. Separate phase liquid type is:			
Gasoline?			
Diesel fuel?			
Heating oil?			
Metal working fluid?			
Lubrication oil?			
Mineral Oil			
Other?			
6. Potential receptors defined?			
7. Potential pathways of SPL defined?			
8. Site specific SPL characteristics collected?			
Specific gravity/density			
Viscosity			
Interfacial/Surface Tension			
Others:			
9. SPL defined horizontally?			
10. SPL defined vertically?			
11. Vapor plume from SPL defined?			
12. Aquifer parameters defined?			
Ground water gradient?			
Ground water hydraulic conductivity?			
SPL gradient?			
SPL hydraulic conductivity?			
13. Ground water use defined (e.g., used or non-use aquifer)?			

Conceptual Model (continued)

Questions	yes?	no?	Comments
14. Surface cover is impermeable (e.g., asphalt, concrete, etc.)?			
15. Soil characteristics understood?			
Heterogeneity?			
Grain Size?			
Permeability?			
Others:			
16. SPL located within overburden soil?			
Or, within bedrock?			
17. Land use for the property defined?			
18. Land use for the neighboring properties known?			