Pennsylvania Act 2 Land Recycling Program

Separate Phase Liquid Screening Checklist

~~Immediate Dangers~~

~~Questions~~	~~Yes?~~	~~No?~~	~~N/A?~~	~~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. Are separate phase liquids uncontrolled? If yes, 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 exposed or possibly exposed to separate phase liquids?~~				
~~8. Are there buildings nearby the location of the release that are exposed or possibly exposed to separate phase liquids?~~				
~~If yes, do these buildings have basements?~~				
~~If yes, monitor for leaching of separate~~				

Separate Phase Liquid Screening Checklist

~~Immediate Dangers~~				
~~Questions~~	~~Yes?~~	~~No?~~	~~N/A?~~	~~Comments~~
~~phase liquid and vapor intrusion?~~				
~~9. Have separate phase liquids been observed in soil samples or ground water monitoring wells?~~				
~~10. Is the separate phase liquid plume growing or moving?~~				
~~11. Are the separate phase liquid levels increasing?~~				
~~12. If separate phase liquid plume is growing or moving, do control measures need to be 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. Is mitigation needed to control potential for future releases of separate phase liquids?~~				
~~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~~				

Separate Phase Liquid Screening Checklist

~~Immediate Dangers~~

~~Questions~~	~~Yes?~~	~~No?~~	~~N/A?~~	~~Comments~~
~~wells at the point of compliance?~~				

~~*If all questions are answered "no", then immediate dangers are controlled and the site may proceed to conceptual model development.*~~

Conceptual Model

Questions	Yes?	No?	N/A?	Comments
1. Is separate phase liquid plume delineated?				
2. Has the size of the SPL plume been determined? If yes, note the size under comments.				
3. Are SPL daughter plumes (i.e., compounds of concern) defined and delineated within ground water?				
4. Is it known whether the SPL daughter plumes are shrinking, stable or growing? If yes, indicate which applies:				
Shrinking?				
Stable?				
Growing?				
5. Are the constituents of the Separate phase liquid known? If yes, indicate which applies:				

Separate Phase Liquid Screening Checklist

Conceptual Model

Questions	Yes?	No?	N/A?	Comments
Gasoline?				
Diesel fuel?				
Heating oil?				
Metal working fluid?				
Lubrication oil?				
Mineral Oil				
Other?				
6. Are the potential receptors defined?				
7. Are the potential pathways of SPL migration defined?				
8. Have the following site-specific SPL characteristics been estimated or measured:				
Specific gravity/density?				
Viscosity?				
Interfacial/Surface Tension?				
Others?: (indicate which)				
9. Is the SPL defined horizontally?				
10. Is the SPL defined vertically?				
11. Has any vapor plume from SPL been defined, if applicable?				
12. Are aquifer parameters defined?				
13. Are ground water use defined (e.g., used or non-use aquifer)?				

If all questions are answered "yes", then the conceptual model is complete and the site should evaluate whether response triggers have been exceeded.

Separate Phase Liquid Screening Checklist

~~Response Action Triggers~~

~~Questions~~	~~Yes?~~	~~No?~~	~~N/A?~~	~~Comments~~
~~1. Has separate phase liquid been observed on the ground surface?~~				
~~2. Has separate phase liquid or a sheen been detected on surface waters?~~				
~~3. Have vapors been detected in buildings, sewers, utility trenches or other preferential pathways?~~				
~~4. Has separate phase liquid been observed in groundwater monitoring wells or water supply wells?~~				
~~5. Do concentrations of dissolved phase contaminants in groundwater samples approach levels that suggest the nearby presence of separate phase liquids?~~				
~~6. Has a fate & transport analysis been completed? (if no move to question 10)~~				
~~7. Does fate & transport analysis show that separate phase liquid or sheen will migrate to surface waters?~~				
~~8. Does fate & transport analysis show that vapors will migrate to buildings, sewers, utility trenches or other preferential pathways?~~				
~~9. Does fate & transport analysis show that separate phase liquids will migrate to groundwater monitoring or water supply wells?~~				

Separate Phase Liquid Screening Checklist

~~Response Action Triggers~~				
~~Questions~~	~~Yes?~~	~~No?~~	~~N/A?~~	~~Comments~~
~~10.~~				
~~*If all questions are answered "no", then triggers are not exceeded and the separate phase liquid concerns may proceed to closure..*~~				