



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Draft Free Product (LNAPL) Guidance Document Review

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Purpose of This Document

- Guidance for Tanks Staff
- Clarity on certain technical aspects
- Consistency
- Get sites closed with free product while following all appropriate laws, rules, regulations, etc., and still be in line with what the other states are doing

What the Document Is Not

- Law
- Regulation
- Enforceable

Responses

- Seven consultants responded
- 65 different comments (some duplicates)
- Revisions not finished
- Need more input

General Comments

- Clarification
- Wording changes
- Accuracy/validity of statements
- Even more changes to process to shorten
- More examples
- Less examples



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Specific Comments

- This new process will take too long
 - Shorter than waiting for free product to go away
 - In line with national trends and ITRC revisions



Specific Comments (cont.)

- Difficult to read
 - Not trying to recreate something that is already out there
 - Relying on published documents so additional research is not necessary
 - Will rework, but will not change content

Specific Comments (cont.)

- All sites treated the same
 - No difference in regulation
 - Much of the information is appropriate for all free product sites

Question 1

- Suggestions on how to improve document with regard to old/new free product
 - Where is the dividing line?
 - Where else is this process used?



Specific Comments (cont.)

- Free product recovery “as much as practicable” and evaluation of risk from free product
 - Distinctively separate in regulations, 2004/2005 Guidance and 2013 Guidance
 - This is **NOT** a rulemaking

Specific Comments (cont.)

- “Maximum extent practicable” too subjective
 - Purpose for this document

Specific Comments (cont.)

- Transmissivity
 - Not the solution to everything
 - Tool / line of evidence

Specific Comments (cont.)

- When to discontinue free product recovery
 - Required by regulation
 - When all criteria for free product have been met
 - Other reasons that don't carry much weight in decisions



Specific Comments (cont.)

- Section 2.2.2 Not Helpful in Quantifying Amount of LNAPL
 - Not the Intended Purpose
 - The Purpose is to Make Sure the Groundwater is Being Evaluated Correctly in the Presence of Free Product

Specific Comments (cont.)

- An LCSM is not cost effective at older sites
 - Liability is not cost effective
 - Sites without No Further Action (NFA) not cost effective
 - Performing active recovery not cost effective

Specific Comments (cont.)

- Shorter process for LCSM for older sites
 - Not in line with the nation / ITRC revisions
 - Not technically supported

Question 2

- The department needs the information from and LCSM to make a valid determination on “as much as practicable”, what Tool(s) would help you develop a good LCSM?

Specific Comments (cont.)

- MIP and LIF not good for evaluating older sites
 - Lines of evidence
 - Use the right tools for your site
 - Information needed to determine tools also the same information you need for LCSM

Specific Comments (cont.)

- Quantitative determinations not applicable to active removal technologies when recovery is intermittent
 - Helps evaluate recovery
 - Utilize active technologies when conditions are best
 - One of the lines of evidence

Specific Comments (cont.)

- LCSM should not have to be a stand alone document, but a reference to where the data is contained in other reports
 - Stand alone?
 - Which reports? Did we have comments on the reports or other issues?
 - Do you really want us to go back through the file and rehash the past?

Specific Comments (cont.)

- Emergency response examples? Do we need them?
 - Used just to give an example of the life of a release
 - This is also a training tool

Specific Comments (cont.)

- Is Section Two necessary?
 - This needs to be available as a training tool
 - Has valuable information that is currently not being performed by experienced staff



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