

What Role does MGS play in the MRBCA process?

- 1. Groundwater Use Pathway
- 2. Delineation of Groundwater COCs
- 3. Ecological Risk

Today's Goal

Redirect focus is a "back to basics" way to Figure 6-1 of the MRBCA Guidance document.

Two Potential Benefits:

- 1. Promotes Efficiency
- 2. Potential Cost Savings

Missouri
Risk-Based
Corrective Action
Process for
Petroleum
Storage Tanks

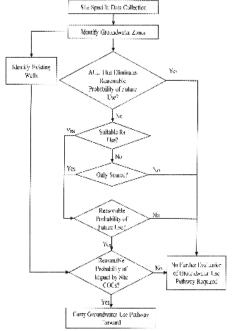


MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI RISK-BASED CORRECTIVE ACTION PROCESS FOR PETROLEUM STORAGE TANKS

October 17, 2013



NOTE

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3. The at-Points of an AUL mass be sufficient to religiously provided portraits of times perforal, by that allow a conclusion trait for table conduction of morphologic negativesy required.

Figure 6-1. Site Conceptual Model for Doutestic Consumption of Groundwater Exposure Pathway Analysis

MRBCA Guidance Document

October 19, 2013

Figure 6-1

Site Conceptual
Model for Domestic
Consumption of
Groundwater
Exposure Pathway
Analysis

 This should be the most robust section of the evaluation!

 Essentially creating a "Groundwater Model" for the site.

Not enough to just discuss the geology!

Must also interpret the data.

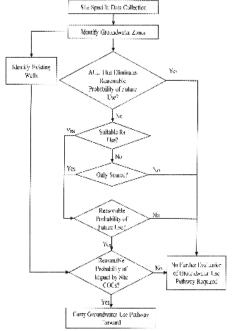
 Other Information that may or may not be appropriate, depending upon the site.

- Springs, spring elevations
- Sinkholes
- Faulting
- Losing or gaining streams (Use with caution)

What information should **NOT** be included in this section?

What should NOT be discussed:

- 1. AULs
- 2. Wells and Well Construction
- 3. Groundwater Use Patterns
- 4. Suitability of Use



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What is required to evaluate this pathway?

What is <u>required</u>:

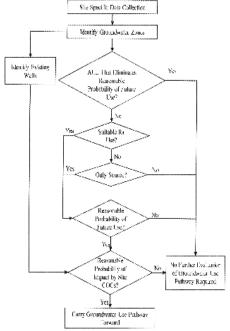
1. Domestic wells within ¼ mile

2. Public wells within 1 mile

If a domestic or public well is present..

Pathway is complete

How do you assess probability of impact?



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Each <u>Groundwater Zone</u> determined during the compilation of your groundwater model <u>MUST</u> be evaluated for each decision block for the future use pathway evaluation.

- 1. AUL for Probability of Future Use
- 2. Suitable for Use (Only Source)
- 3. Reasonable Probability of Future Use
- 4. Reasonable Probability of Impact

AUL that Eliminates Reasonable Probability of Future Use

Well Construction Rules
Deed Restrictions

Suitable for Use and Only Source

Yield of ¼ gallon per minute (or 360 gallons per day)
TDS of 10,000 mg/L or less

When does "Only Source" matter?

Reasonable Probability of Future Use

Will be evaluated on a "weight of evidence" basis and will be site specific.

This is determined by the Tanks Section not by MGS.

Reasonable Probability of Impact by Site COCs

Potential impacts must be evaluated at the nearest downgradient location that could reasonably be considered for use.

When should a Groundwater Use Pathway Evaluation be completed?

Any Questions ??

Thank You

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