



Getting Better All The Time

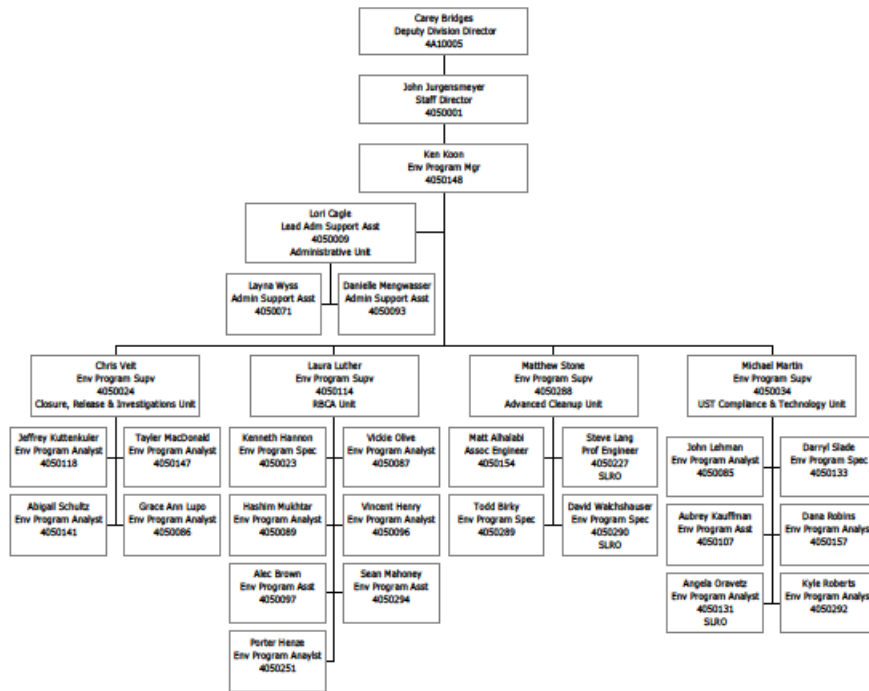
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Basic Stuff



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 Division of Environmental Quality
 4156/Environmental Remediation Program/Tanks
 573-751-6822

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MISSOURI
 DEPARTMENT OF
 NATURAL RESOURCES

More Basic Stuff

- We Still Require Paper Copies of All Reports
- Hoping to go Electronic Sometime in the Next Couple of Years

Emergency Response

- Work with EER until Emergency is over
- Once referred to Tanks, Tayler MacDonald is contact
- Make sure you are clear in your first report about whether the release entered the environment
- Collect soil samples for Tanks sites. PIDs are not enough.

Site Characterization

- When you have a site field visit, contact your DNR project manager
- Properly dispose of soil cuttings and purge water
 - Use drums or sample material before discharging on the surface
- Anomalies and Outliers. There are no such things. There is either good data or unacceptable data.

Site Characterization (cont.)

- Make sure you are including all the appropriate blanks
 - Equipment Blanks
 - Field Blanks
 - Trip Blanks
- Soil Samples – Trip Blank
- Groundwater Samples – Trip and Field Blanks
- Soil Vapor Samples – Equipment Blank and Field Duplicates

Site Characterization (cont.)

- Vertical delineation at bedrock
 - Cannot delineate soil when there is no soil
 - Collect soil sample at bedrock interface
 - Is there groundwater above the bedrock consistently?
 - Cannot delineate groundwater to a dry well

Drawing Scale

- Graphic Scale

- YES

Drawing Scale

- SCALE: 1" = 100 feet

• NO

Soil Vapor Data Representative Concentration Calculation

- Yes
 - Average the shallow samples within the exposure domain during one sampling event
 - Average the deep samples within the exposure domain during one sampling event
 - Average the shallow samples within the exposure domain during the second sampling event
 - Average the deep samples within the exposure domain during the second sampling event
- No
 - Do not average over time or different depths

Plume Stability

- Don't forget to send your data either via CD, memory stick, or electronic transfer.
- Do not use methods that have not been peer reviewed. If you are unsure, call to find out.

Buildings in Contact with Groundwater

- Johnson-Ettinger Method does not apply
- Tier 3
- Virginia trench method
- Indoor air sampling
- Method needs to be pre-approved

Tables 7-4 and 7-5

- For new releases
- For sites with no previous soil or groundwater contamination
- For sites with no current groundwater contamination from current release
- For determination how much contamination in soil can be left immediately after the release and not impact the groundwater.
- Not appropriate for any other situations

QUESTIONS?

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