

Johnson, Bill H (DNR)

From: Fred Marinelli <[REDACTED]>
Sent: Tuesday, October 09, 2012 3:08 PM
To: Johnson, Bill H (DNR)
Cc: David Blaha; Al Trippel; Melinda Todorov; Carlson, Erik (MPCA); Houston Kempton; Paul Haby; Fred Marinelli
Subject: GoldSim inputs to Plant Site model
Attachments: Water Modeling Workplan - Plant Site v6 JUL2012.pdf; Water Modeling Workplan - Plant Site v7 OCT2012.pdf

Bill,

Attached are two sets of input tables pertaining to the GoldSim Plant Site model. v6 was used as input to the previous GoldSim model (version 2.3) and v7 is for the current model (version 3.0). The highlighted entries in v7 indicate input values that have changed between GoldSim versions 2.3 and 3.0 (current). It is my understanding that most of these changes have been mutually agreed upon and are documented in CDFs or by verbal agreement with Barr.

I request that your technical team review the v7 tables, focusing on the highlighted entries, and verify that the new inputs are consistent with mutually agreed upon values and/or professional judgment. Particular attention should be paid to geochemical parameters that control chemical releases from the FTB. For example, the sulfur content of LTVSMC tailings has increased from 46.1 to 329 mg/kg, which is a substantial change from model versions 2.3 and 3.0. There are also some significant changes to sulfate release parameters for both LTVSMC and Flotation tailings.

Later this week, I will send two sets of input tables for the Mine Site and request a similar Agency review of these inputs. Feel free to call me at [REDACTED] if you have any questions regarding this request.

Respectfully,

Fred

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Fred Marinelli
Senior Groundwater Hydrologist

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