Conceptual Site Model of Storm Water Runoff in the Vicinity of the Laboratory

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B- Precipitation falling on the Jemez Mountains (area of little to no anthropogenic development) generates storm water runoff which flows through the undeveloped landscape, B mobilizing and transporting constituents sourced from the natural landscape and atmospheric deposition.

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C- Storm water enters the Laboratory boundary, C where canyon sediments are mobilized and transported downstream.

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A-Prevailing southwest

winds bring storms to the

Laboratory, as well as

atmospheric deposition of

constituents such as PCBs.

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D,E- Precipitation events within the (E)Laboratory result in storm water (D) runoff from impervious surfaces on the mesa tops, mobilizing and transporting constituents from developed sources (D), and historic Laboratory activities (E).

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G-Due to the arid environment and sandy canyon bottoms within the Laboratory, storm flows rarely reach the Rio Grande. Occasionally, due to large rain events or years of high snowmelt, canyon flows may reach the Rio Grande and mix with in-stream flow.

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