



Interstate Technology & Regulatory Council

<https://ITRCweb.org>

Cost and Performance Reporting for In Situ Bioremediation Technologies (ISB-5)

EXECUTIVE SUMMARY

The Interstate Technology and Regulatory Cooperation (ITRC) Work Group, established in 1995, is a state-led partnership between state environmental regulatory agencies, federal agencies, tribal, public and industry stakeholders. The purpose of the ITRC is to improve environmental cleanup by encouraging the use of innovative environmental technologies, while reducing regulatory paperwork and overall costs. States are collaborating to develop and facilitate the use of standardized processes for the performance verification of new technologies. The *In situ* Bioremediation Team of the ITRC initiated a project to define a standardized method to compare cost and performance information from *in situ* bioremediation technologies. Ongoing demonstration projects being conducted at Dover Air Force Base in Delaware by the Remedial Technologies Development Forum (RTDF) were chosen to provide sample information for the reporting format.

This report describes a reporting methodology to obtain comparable information regarding the costs and performance associated with different types of technologies. Information gathered may then be compared in an equivalent manner to help determine which remediation technologies are the most effective for given site projects. Example information provided in this document is from a series of demonstrations by the Remediation Technologies Development Forum (RTDF), Bioremediation Consortium at Dover Air Force Base in Dover, Delaware.

Based on the level of concurrence from state agencies which regularly have oversight of proposed *in situ* bioremediation alternatives, the Cost and Performance Subteam of the *In Situ* Bioremediation Work Team of the Interstate Technology and Regulatory Cooperation Work Group recommends the use of the Cost and Performance Reporting for *In Situ* Bioremediation Technologies described herein. The Reporting format will provide standardized information with sufficient detail to adequately evaluate the relative effectiveness of insitu bioremediation remedies compared to other classes of remediation alternatives in given projects.