

LEGAL NOTICE # 21257372 THE UNITED STATES DEPARTMENT OF

Legal Notice # 21257372 The United States Department of Energy has completed a Five-Year Review for the Brookhaven National Laboratory Site Upton, New York (To be issued in Newsday March 23, 2017) The U.S. Department of Energy has completed a Five-Year Review for the Brookhaven National Laboratory (BNL) site, as required by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This review serves to ensure that the implementation and performance of the selected cleanup remedies continue to be effective in protecting human health and the environment. The U.S. Environmental Protection Agency concurs with the protectiveness determinations as reported within this Five-Year Review. This is the third site-wide Five-Year Review of all the remediation work performed at the BNL site. This includes remediation of groundwater contamination on and off of BNL property, excavation and disposal of contaminated soils and river sediments, removal of above- and below-ground storage tanks, capping of landfills, decommissioning activities and long-term surveillance and maintenance at the former Brookhaven Graphite Research Reactor (BGRR) and High Flux Beam Reactor (HFBR). Land-use restrictions and institutional controls are in place to ensure that any residual contamination left in place is not dispersed and does not adversely affect human health or the environment. Information on the selected remedies at BNL as well as the status of remediation activities at the site is available on the BNL website <http://www.bnl.gov/gpg/>. Following the completion of data review and an evaluation of the performance and protectiveness of the remedies, a report summarizing the results was prepared. This report concluded that the remedies were implemented in accordance with the nine Records of Decision (RODs) and the three Operable Unit (OU) III and one BGRR Explanations of Significant Differences (ESDs). The soil cleanup levels were met and the groundwater pump and treat systems have been functioning as intended by the RODs. In some cases, additional groundwater extraction wells have been added and soil excavation completed to help ensure that the groundwater cleanup goals will be met. The cleanup performed continues to meet the remedial action objectives identified in each ROD. Long-term protectiveness of the Peconic River remedy has been verified by continued monitoring of the sediment, surface water, and fish, and by completing the revegetation in areas that underwent supplemental remediation during the winter of 2010/2011. One location, Area PR-WC-06 was identified as having elevated mercury levels in the sediment based on 2014 and 2015 monitoring. Additional excavation is being proposed for this small area of approximately 0.06 acres. All other areas in the river have met their long-term cleanup objectives identified in the ROD. For the OU I soil excavation remedies, the work was performed in accordance with the ROD, applicable design documents, and Remedial Action Work Plans. The soil cleanup levels were met for these areas. The cleanup work for the BGRR met the cleanup goals in the ROD. The remaining work for the HFBR will be implemented in accordance with the ROD. The remedies are expected to be protective upon completion of the cleanup actions for the HFBR and the attainment of groundwater cleanup goals. A comprehensive sitewide protectiveness determination covering all the OUs and the reactors (BGRR and HFBR) must be reserved at this time because work is not complete for the HFBR stack demolition and reactor vessel removal. Notwithstanding the above, the U.S. Environmental Protection Agency concurs that the remedies selected and implemented to date, as reported in this Five-Year Review, are protective of human health and the environment. The Five-Year Review Report can be viewed at the following repositories and on the BNL website <http://www.bnl.gov/gpg/> BNL Research Library Building 477A Upton, NY (631) 344-3483 Stony Brook University Library Melville Library Special Collections and University Archives Room E-2320 Stony Brook, New York 11794 (631) 632-7119 U.S. EPA, Region II Library 290 Broadway New York, NY (212) 637-4296 The fourth BNL Five-Year Review to be conducted in 2021 will include all OUs, the BGRR, HFBR, and the g-2 Tritium Plume, the Brookhaven Linac Isotope Producer, and the Underground Storage Tanks (USTs). A comprehensive site-wide protectiveness determination may be included at that time. If there is a need for further information regarding this Five-Year Review, please send an email to tellDOE@bnl.gov, fax to (631) 344-3444, or write to: Mr. Frank Crescenzo Site Manager, Brookhaven Site Office Attn: Five-Year Review U.S. Department of Energy P.O. Box 5000 Upton, NY 11973 If there are any questions, please call John Carter, Director of Community Affairs for DOE's Brookhaven Site Office, at (631) 344-5195.

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[Back](#)