

ITHACA GUN DEMOLITION PROTOCOL FOR TESTING OF ON-SITE MATERIAL

The following is the protocol to be used for sampling of demolition material for possible reuse on site:

1. All wood, glass, roofing material, asbestos-containing material, and metal will be disposed off site. Material potentially suitable for reuse includes concrete, brick, and other masonry material.
2. All surfaces and materials are to be visually inspected and screened prior to demolition. Screening will involve the use of XRF, PID, and Geiger counter technologies. Prior to the screening process, the XRF is to be calibrated by taking instrument readings and samples for laboratory analysis at a minimum of four locations representative of surfaces and materials to be screened. The XRF readings are to be compared to the laboratory test results and adjustments are to be made to the XRF as necessary. The XRF screening must follow the established NYSDEC protocol for screening materials, including laboratory analysis of at least 10 percent of the XRF readings taken.
3. Initial screening is to be performed in areas of known or suspected contamination, such as sumps, drains, stained areas, and the shooting tubes to establish threshold screening values. These threshold values will be determined in consultation with the NYSDEC. Subsequently, any masonry material outside the areas of known or suspected contamination that exhibits screening results at or above the threshold values must be mitigated and re-screened or disposed off site. Any masonry material that exhibits screening results below the threshold values will be tested in place for possible crushing and reuse on site. Representative samples will be collected from the material in accordance with O'Brien & Gere's Masonry Sampling Plan (attached) for laboratory analysis of RCRA metals, cyanide, VOCs, SVOCs, and PCBs. Any material that exhibits exceedances of the restricted-residential use levels specified in Table 375-6.8(b) must be disposed off site.
4. Materials from the areas of known or suspected contamination will be disposed off site. The extent of material from these areas subject to this requirement will be determined by visual evidence, screening results, and consultation with the NYSDEC's field representative.
5. During the crushing of stockpiled masonry material, composite samples will be taken for each 1000 cubic yards of crushed material. The material shall be stockpiled in such a manner that it can be correlated to the sample taken. The samples are to be tested for RCRA metals, cyanide, VOCs, SVOCs, and PCBs. If the test results of the sampling show that the material exceeds the restricted-residential use levels specified in Table 375-6.8(b), the material must be disposed off site.

6. A Material Management Plan is to be submitted prior to the start of demolition to ensure that all material requiring off-site disposal is properly segregated during the demolition process. In addition, the Plan must ensure that crushed material is stockpiled in such a manner as to not interfere with the Focused Site Investigation activities.
7. The NYSDEC and the NYSDOH reserve the right to request additional sampling and adjust the testing parameters at their discretion. Typically this will be required if unknown or unusual conditions occur, or when materials change characteristics (e.g., color, texture, odor, composition).
8. Following demolition, a focused site investigation will be conducted and additional remedial measures will be taken, as necessary, to provide further assurances that the site and surrounding area will not be impacted by contaminated material.