

**SCOPE OF WORK**  
**VAPOR INTRUSION SAMPLING**

**Former Buffalo Color Site  
Area B and 343 Elk Street**

**February 2009**



**MACTEC**

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## **SCOPE OF WORK - VAPOR INTRUSION SAMPLING (AREA B AND 343 ELK STREET)**

Subslab soil vapor, indoor air, and outdoor air samples will be collected from the 100 Lee Street building and the former “Hospital” building on Area B<sup>1</sup> (both buildings are not owned by SBD), and the samples will be analyzed for VOCs, in accordance with the New York State Department of Health (NYSDOH) “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” (“Guidance”) (Public Comment Draft, February 2005). Per the Guidance, two subslab soil vapor samples, two indoor air samples, and one outdoor air sample will be collected from the 100 Lee Street building. One subslab soil vapor sample, one indoor air sample, and one outdoor air sample will be collected from the former Hospital building. The locations of these buildings are shown on Figure 1.

For the warehouse building located at 343 Elk Street on Area E<sup>1</sup>(not owned by SBD), MACTEC will attempt to gather additional information (with assistance from NYSDEC) regarding the current status of any historic or ongoing indoor air investigation of this building conducted by the current owner. If necessary, MACTEC will collect two subslab soil vapor samples, two indoor air samples and one outdoor air sample for VOC analyses per the Guidance. See Figure 1 for the location of this building.

The sub-slab samples will be collected within the specified buildings via temporary sample points. The sample locations will be selected based on accessibility, sub-slab utility locations, and other factors. The samples will be collected as follows:

1. A hole will be drilled through the concrete floor slab using hand-operated drilling or coring equipment.
2. A temporary probe consisting of stainless steel sample tip and polyethylene or Teflon® tubing will be installed no more than two inches into the sub-slab aggregate material.
3. The annular space around between the sample tube and the floor slab will be sealed as specified in the NYSDOH guidance.
4. One to three volumes of the sample probe and tube will be purged at a rate not to exceed 0.2 liters per minute.

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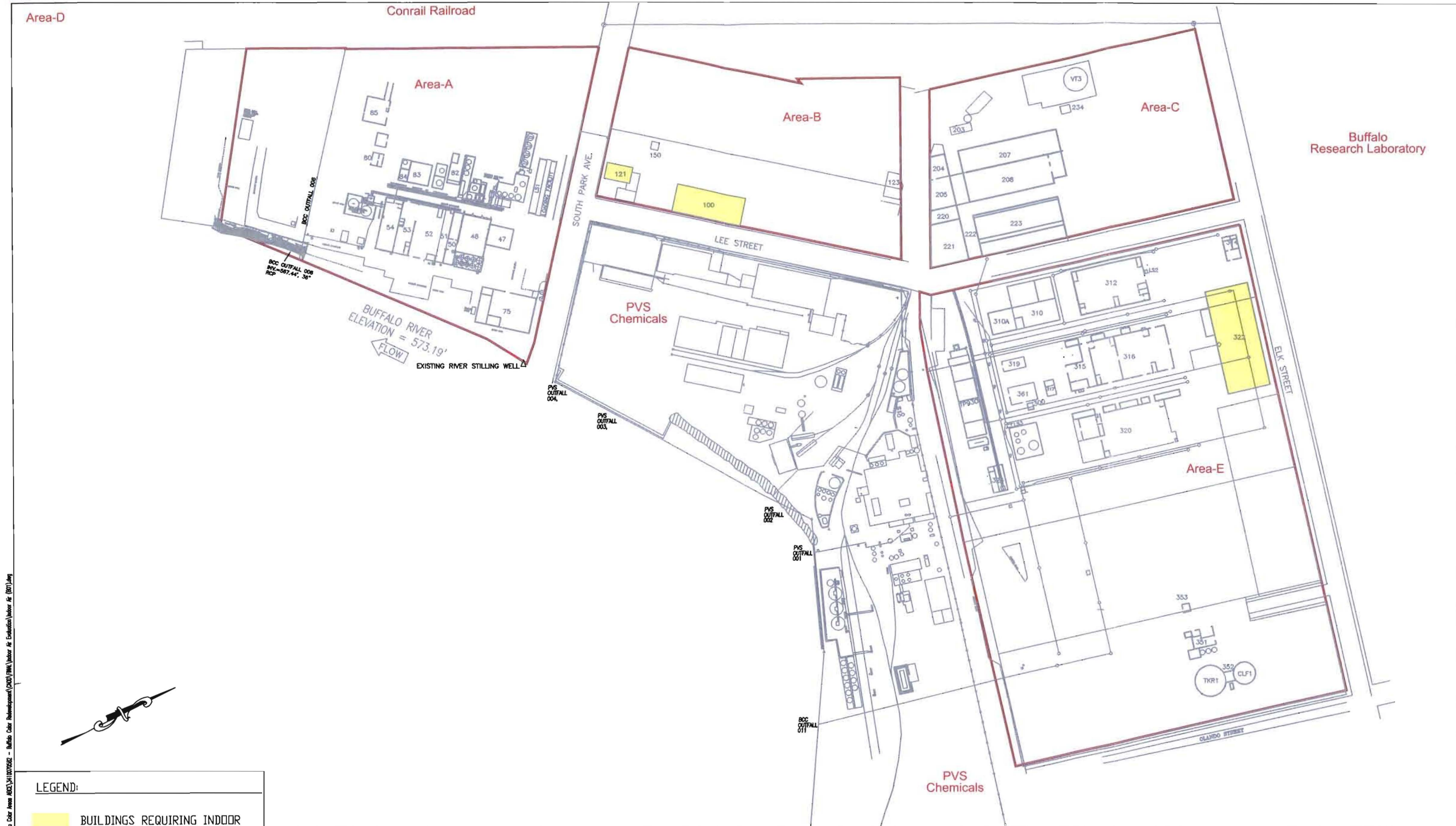
<sup>1</sup> Work will commence within 30 days of obtaining access to the buildings from their respective owners.

5. Sub-slab soil gas samples will be collected in Summa® canisters in accordance with EPA Method TO-15.
6. The holes will be filled with grout and the surface restored.

The indoor/outdoor air samples will be collected at the same time using Summa canisters and analyzed for VOCs by EPA Method TO-15.

The vapor intrusion sampling activities will be documented in accordance with the Guidance. The Summa canisters will be submitted with chain of custody documentation to a qualified laboratory for VOCs by EPA Method TO-15.

Within 60 days of receipt of all data from the laboratory, the results of the vapor intrusion investigation will be provided to NYSDEC in a letter report that will include a description of the sampling methods, summary of results, and conclusions and recommendations based on the results. Tables, figures, analytical reports and other attachments will be provided as appropriate.



LEGEND:

BUILDINGS REQUIRING INDOOR AIR EVALUATION

200 0 200  
SCALE: 1" = 200'

PROJECT NUMBER:	3410070582
DRAWING NUMBER:	B01.DWG
DATE:	2-13-2009
DRAWN BY:	NEL
APPROVED BY:	-

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BUILDINGS REQUIRING INDOOR AIR EVALUATION  
BUFFALO COLOR AREAS ABCE  
BUFFALO, NEW YORK

FIGURE

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