Executive Summary

On December 8, 12, 19, and 22, 2016, ATC performed a Lead-Based Paint (LBP) and Asbestos Investigation for the Boiler House (Mechanical Building) located at 825 Barret Avenue in Louisville, Kentucky. Lead content was determined on select painted surfaces by utilizing a portable Niton X-Ray Fluorescence analyzer (XRF) S/N 6993. The inspection, sampling, and analytical procedures were performed in general accordance with the United States Environmental Protection Agency's (USEPA's) rules and regulations as well as guidelines of the Asbestos Hazard Emergency Response Act (AHERA), the Housing and Urban Development (HUD), the Occupational Safety & Health Administration's (OSHA's) Lead in Construction Standard, and the National Institute of Occupational Safety and Health (NIOSH).

A total of one hundred forty one (141) XRF readings were collected at the building. Six (6) of the one hundred and forty one (141) samples were above the 1.0 mg/cm^2 cutoff for lead based paint. As determined above 1.0 mg\cm2 are considered to be lead based paints. In addition, lead in glazing on select ceramics are not paints however were identified to contain lead. The following materials and paints were above the 1.0 mg/cm^2 cutoff:

Reading No	Component	Substrate	Side	Condition	Color	Floor	Sample Room
2971	WALL	CERAMIC	C	INTACT	TAN	FIRST	STORAGE
3039	WALL	CERAMIC	B	INTACT	GREEN	FIRST	BATHROOM WOMENS
3044	WALL	CERAMIC	D	INTACT	WHITE	FIRST	BATHROOM MENS
3056	WALL	CERAMIC	C	INTACT	BLUE	FIRST	CARPENTRY SHOP STORAGE
3090	PIPE 6in	METAL	LOWER	INTACT	YELLOW	FIRST	BOILER RM
3098	DOORFRAME	WOOD	D	POOR	WHITE	FIRST	SHOP AREA

The Occupational Safety and Health Administration (OSHA) states paint results with any detectable level of lead must be addressed as a Lead-Containing Paint that could become an exposure hazard to workers who disturb these coated surfaces during demolition or renovation activities as detailed in 29 CFR 1926.62. The six (6) LBP paint and the following five (5) additional materials and paints are considered to be Lead-Containing:

Reading No	Component	Substrate	Side	Condition	Color	Floor	Sample Room
3031	DOOR	WOOD	A	INTACT	BROWN	FIRST	LOCKER RM
3079	I_BEAM 16in	METAL	UPPER	INTACT	WHITE	SECOND	STOAGE
3080	I_BEAM 24in	METAL	UPPER	INTACT	WHITE	SECOND	STORAGE
18	DOORFRAME	METAL	A	PEELING	GREEN	FIRST	ELECTRICAL BLDG
21	WINDOW FRAME	METAL	A	PEELING	GREEN	FIRST	ELECTRICAL BLDG

Similar paints on similar substrates should be considered LBP or lead-containing paint throughout the building.

A total of twenty three (23) homogenous areas (HAs) were identified as suspect asbestos materials within the Boiler House (Mechanical Building). Twenty two (22) HAs were sampled and collected for laboratory analysis. Laboratory analysis indicated that nine (9) of the twenty two (22) HAs were found to contain asbestos concentrations greater than one percent (>1%). The select asphalt roofing materials (HA 12') were assumed to contain asbestos.

HA No.	MATERIAL TYPE	LOCATION	ACM Type	ACM Y/N	Friable Class	Material Quantity
4	12"x12" Gray/ Dark Gray Floor Tile	First Floor Break Area, First Floor Office, First Floor Rooms	M	Y	I	868 SF
11	9"x9" Beige Floor Tile/Black Mastic	First Floor Storage	M	Y	I	120 SF
5'	Brown Glue Dot	First Floor Office Above Ceiling	M	Y	II	160 SF
6'	18" HC Pipe Insulation	First Floor Room	TSI	Y	F	24 LF
7'	4" HC Pipe Insulation	Second Floor, Plumbing Shop, Exterior Between 825 and Electric Building	TSI	Y	F	103 LF
8'	4" Fitting	Second Floor, Plumbing Shop	TSI	Y	F	18 each
9'	6" Fitting	Second Floor, Plumbing Shop	TSI	Y	F	11 each
10'	8" Fitting	Second Floor, Plumbing Shop	TSI	Y	F	4 each
11'	10" Fitting	Plumbing Shop	TSI	Y	F	6 each
12'	Asphalt Roofing System	Exterior of Building	M	A	I	9,041 SF

Should suspect materials be identified that are not included the attached tables. ATC recommends that an asbestos licensed building inspector and/or lead risk assessor be called to the site to investigate any such material. A complete listing of sampled painted surfaces, sampled suspect asbestos containing materials, and analytical results can be found in the report text and attached tables.