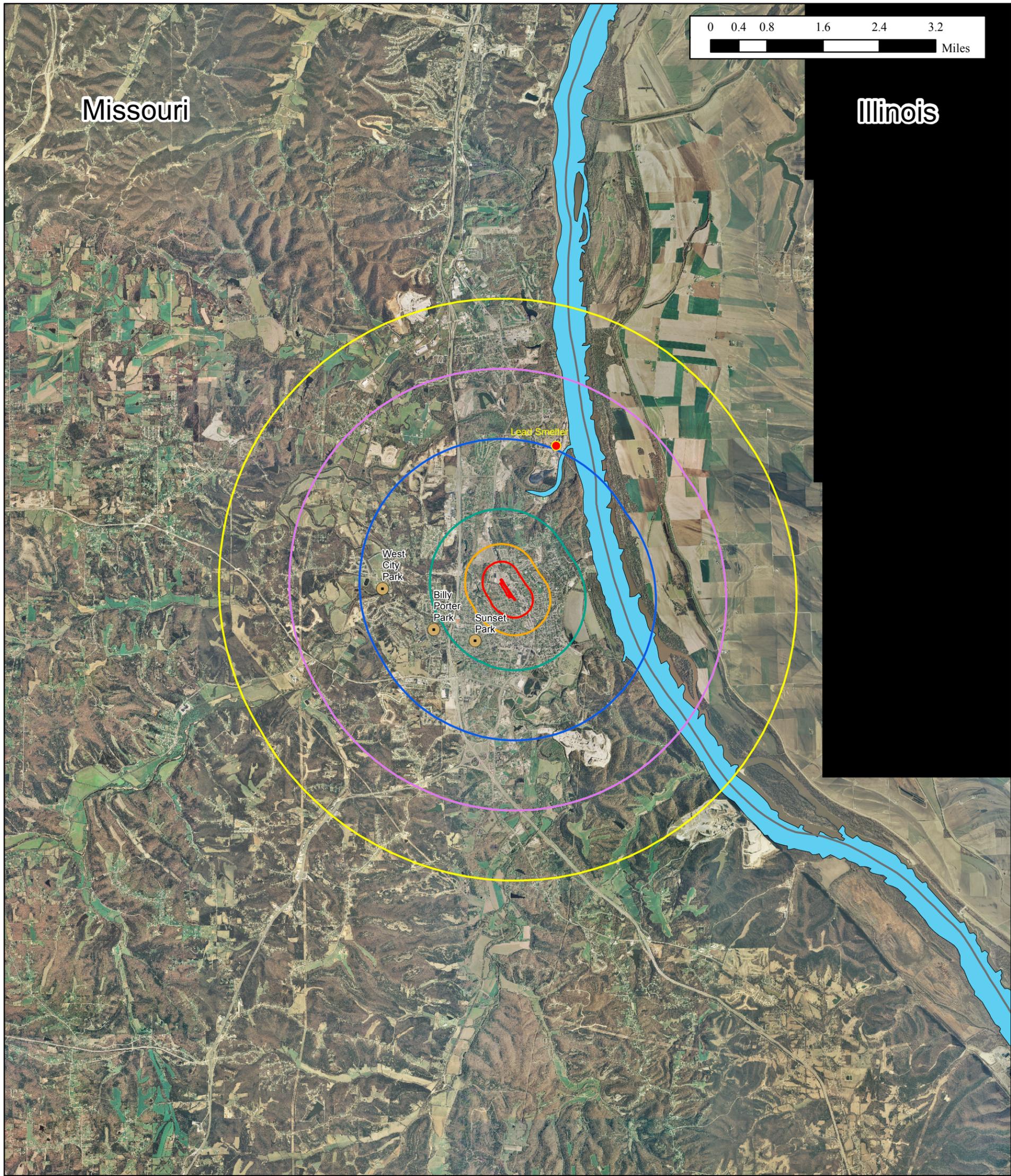


# **APPENDIX A**

## **FIGURES**



**Figure 1A: Site Location Map  
Shapiro Brothers Salvage Site  
Festus, Jefferson County, MO**

**Legend**

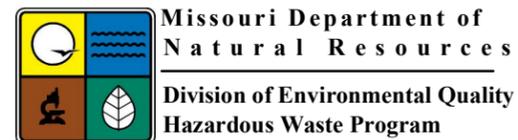
Wetlands within 4 miles: 3253 acres

Created on: August 16, 2012 by Shelly Jackson  
This map is located at M/Superfund/Shapiro Brothers/  
Figure1A\_SiteLocationMap1.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.  
Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

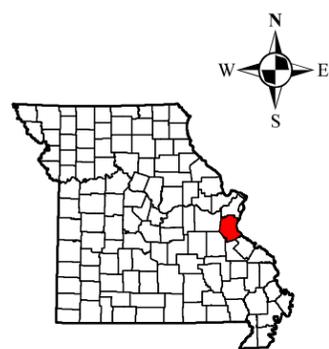
Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.



-  Shapiro Brothers Salvage Yard Boundary
-  State Boundary
-  Mississippi River
-  Background Soil Sample Location

**Population in Radius Rings from Shapiro Brothers Salvage Yard (miles population)**

	0.00 - 0.25	1,129
	0.25 - 0.50	2,908
	0.50 - 1.00	6,463
	1.00 - 2.00	7,613
	2.00 - 3.00	5,713
	3.00 - 4.00	9,511





**Figure A2**  
**Surface Water/Sediment Sampling Locations**  
**Shapiro Brothers Salvage Site**  
**Festus, Missouri**

**Legend**

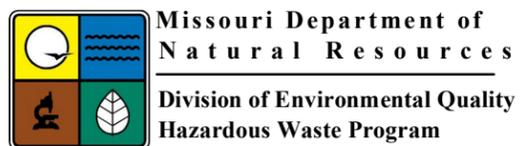
-  Shapiro Brothers Salvage Yard Boundary
-  Surface Water/Sediment Sampling Location

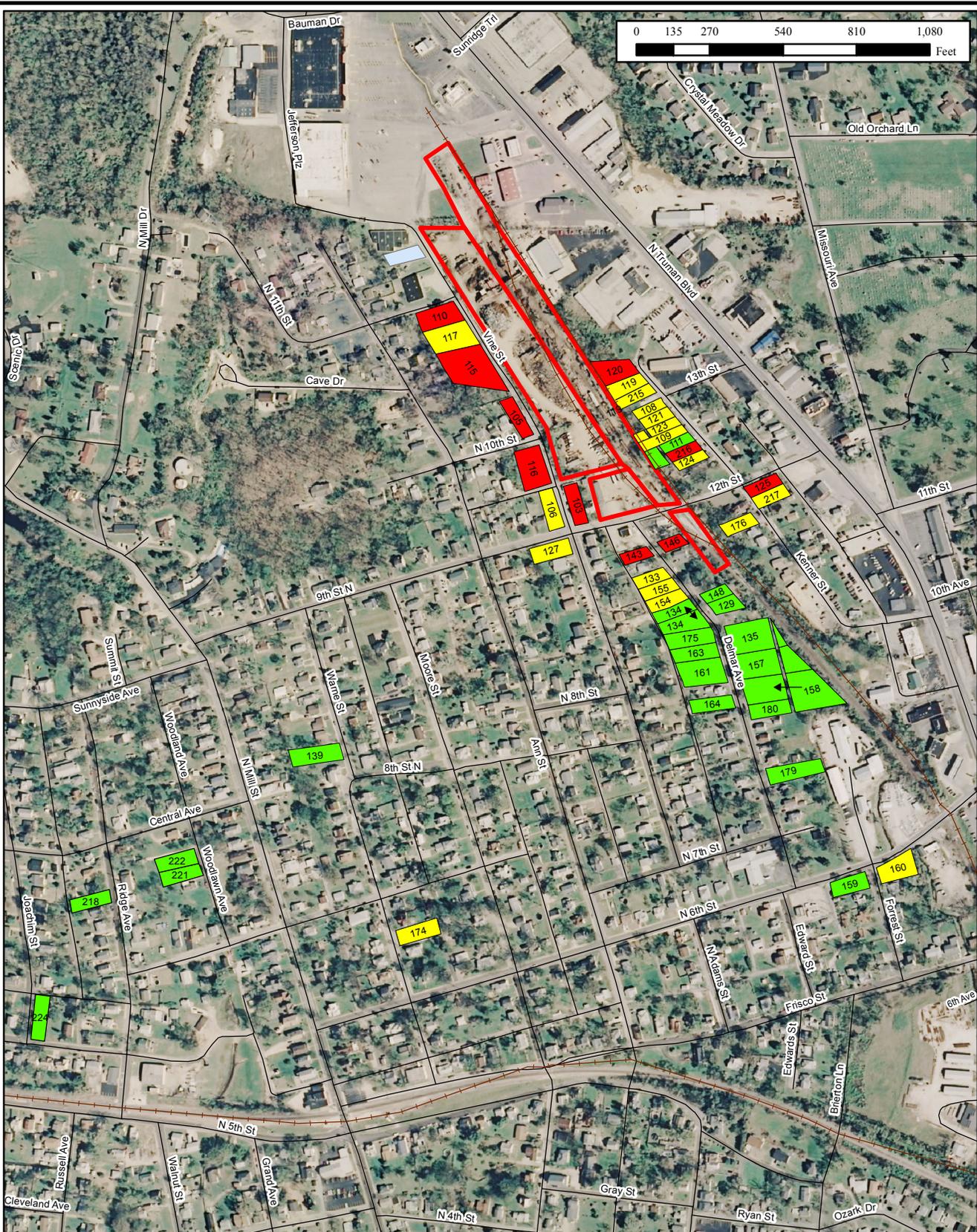
Created on: June 11, 2012 by Shelly Jackson  
 This map is located at M/Superfund/Shapiro Brothers/  
 Sample\_Location\_Map\_Residences\_Results.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.  
 Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.

Although data sets used to create this map have been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.





**Figure A3. Yard Wide Lead Average  
Shapiro Brothers Salvage Site  
Festus, Jefferson County, MO**



**Legend**

Shapiro Brothers Salvage Yard Boundary	<230 mg/kg Pb
Road	230 - 399 mg/kg Pb
Railroad	>400 mg/kg Pb
	Wipe Sample Only

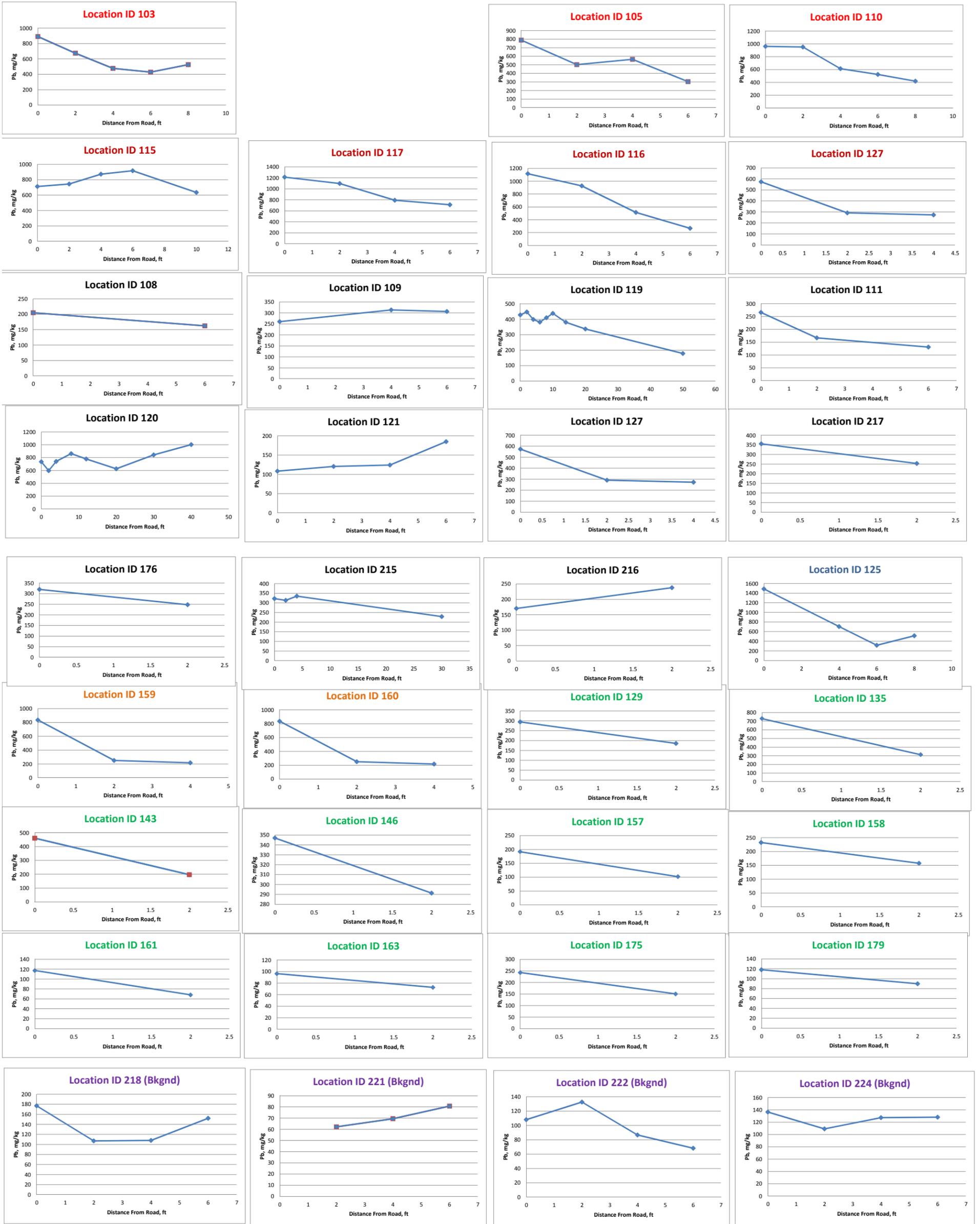
Created on: August 2, 2012 by Shelly Jackson  
 This map is located at M:\Superfund\Shapiro Brothers/  
 Figure3A\_YardWideLeadAvg.mxd

Base Map: 2007 Missouri State Leaf-Off Imagery Program.  
 Flight Date: 2007

Additional Layers: Missouri Department of Transportation, U.S. Census Bureau.  
 Although data sets used to create this map have been compiled by the  
 Missouri Department of Natural Resources, no warranty, expressed  
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**Missouri Department of  
Natural Resources**  
 Division of Environmental Quality  
 Hazardous Waste Program

Figure A4. Graphs of Lead Concentration Vs. Distance From Suspected Source Area, In-Situ XRF Analysis  
Shapiro Brothers Salvage Site, Festus, Missouri



Color Key:  
 Vine  
 Delmar  
 Kenner  
 12th  
 Forrest  
 Background

**Figure A7**

**Box Plots Comparing Lead Concentrations in Target Yards to Those in Background Yards and City Parks**



**Figure A5. Correlation of Lab Lead:XRF Lead  
Shapiro Brothers Salvage Site, Festus, Missouri**

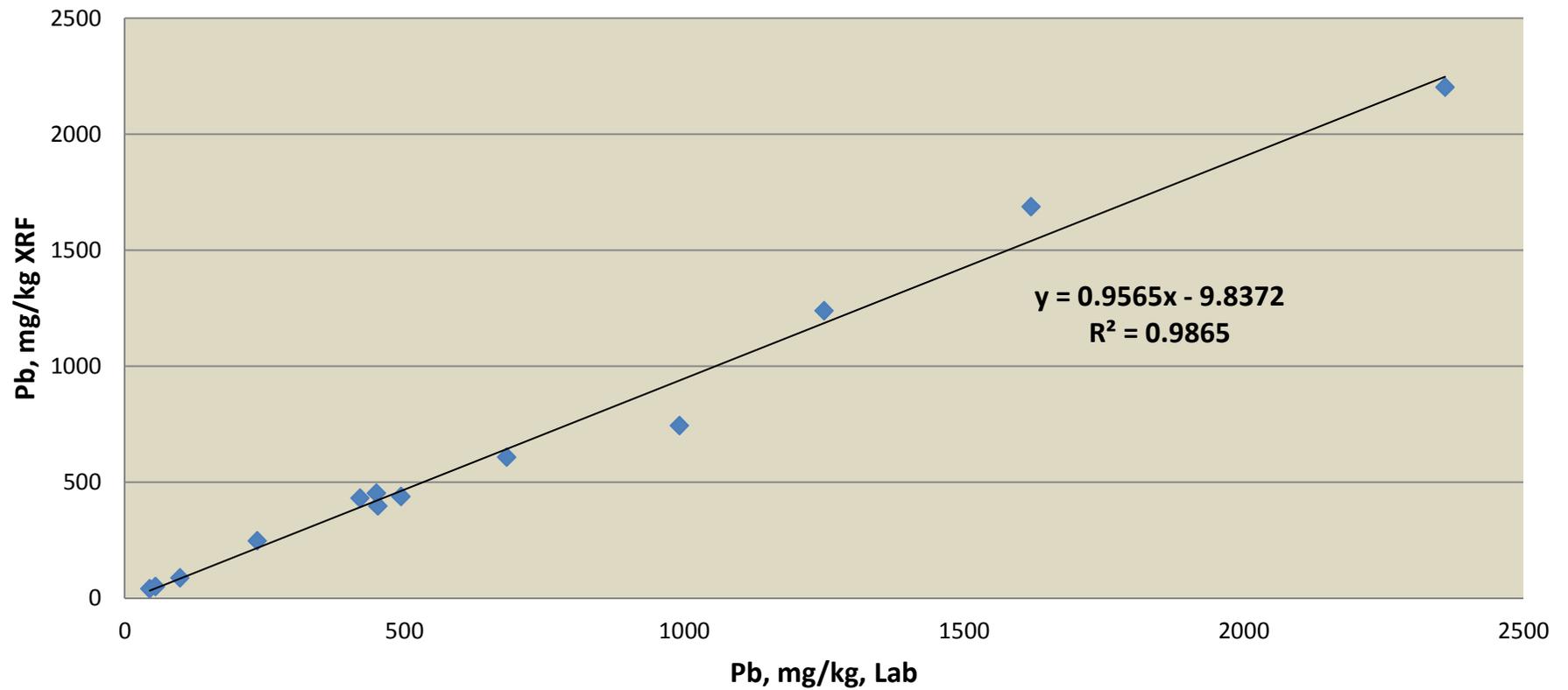


Figure C6. Histogram of Lead Concentration in SU1 Shapiro Brothers Salvage Site, Festus, Missouri

