

**TECHNICAL MEMORANDUM
BROWNFIELDS SUSTAINABILITY PILOT
LANGDALE MILL, VALLEY, ALABAMA**

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) Brownfields Program empowers states, communities, and other stakeholders to work together to prevent, assess, safely clean up, and sustainably reuse brownfields. Under this program, EPA's Brownfields Sustainability Pilots are providing technical assistance to support communities in achieving greener, more sustainable assessment, cleanup, and redevelopment at their brownfields projects. EPA selected the Langdale Mill in Valley, Alabama, where a mixed use development is planned, as a Brownfields sustainability pilot. As part of this pilot, Tetra Tech EM Inc., (Tetra Tech), through a subcontract to SRA International, Inc., provided assistance for the City of Valley to create an inventory of materials that can be reused or recycled from the Langdale Mill site through deconstruction of buildings and other structures on portions of the site. The reuse of deconstructed materials on site will help achieve several of Valley's goals for the project, such as implementing and promoting sustainable redevelopment opportunities, interpreting the site's rich architectural and industrial heritage, and creating local jobs or volunteer opportunities.

This technical memorandum presents the sustainability pilot activities, a summary of inventory results, and other observations and recommendations for sustainable redevelopment identified during the pilot activities. A figure showing the general layout of the Langdale Mill is included as Attachment A; the inventory of materials is included as Attachment B; and a photographic log is provided as Attachment C. Tools and resources used to calculate material quantities are provided in Attachment D.

SUSTAINABILITY PILOT ACTIVITIES

Tetra Tech conducted several pilot activities before the field inventory. First, Tetra Tech developed a draft material reuse inventory tool to collect information on building materials, estimated salvageable quantities, and estimated costs or income values. EPA and the City of Valley reviewed the draft tool, and Tetra Tech revised the tool based on comments received. Tetra Tech also participated in several conference calls with EPA and the City of Valley to refine the inventory tool and establish the scope of the pilot activities. In addition, Tetra Tech reviewed resources and site-specific information prior to the field inventory, including site maps and photos, an initial materials evaluation conducted by EPA, and site development plans.

Tetra Tech conducted the initial field inventory at the Langdale Mill site in October 2008 and a follow-up visit in February 2009. Based on discussions with the pilot team and a review of available pilot resources, the following site areas were surveyed during the inventory:

- Warehouses 1 through 5
- Farmer's Market Area
- Rooftop air handling unit above Weave Room No. 1.

Miscellaneous aboveground storage tanks were also evaluated for potential reuse. These areas are shown on the figure in Attachment A. The inventory activities focused on agreed-upon primary materials, including: (1) lumber, (2) metal for scrap or reuse, (3) brick, (4) concrete, and (5) other items for potential reuse in the proposed redevelopment—particularly those items of potential value or that may highlight the industrial heritage of the site. Field measurements of the dimensions of the inventory materials were made, as possible in the field. Items identified during the field inventory are presented in detail in the inventory tool (see Attachment B).

After the field inventory was completed, quantities of each building material type were calculated based on field observations and measurements. Lumber types were quantified primarily as board feet (BF) or square feet (sf), and metals were quantified in weight. The quantity calculations were documented in the inventory tool. Local vendors were contacted to determine appropriate quantity conversion factors and units to use in calculations; vendors also provided input regarding costs or values associated with the materials inventoried. The following local salvage vendors provided information that supported the approximation of the value of salvaged lumber, scrap metal, and other materials:

- L. Roy Lumber Co.
Bessemer, AL
Phone: 800-476-8169
- Wadkins Metal and Recycling
Salem, AL
334-297-2552
- Waste Recycling, Inc.
Opelika, AL
334-745-2921
- CCR of Alabama
Smiths Station, AL
334-297-1761
- Opelika Scrap, Inc.
Opelika, AL
334-745-2622
- Reaves Wrecking Company
Columbus, GA
706-322-8923
- EJ Knight Scrap Material Co.
Columbus, GA
706-322-5435

These vendors may also be considered as potential bidders or team members for contractors bidding to implement deconstruction activities at the site.

INVENTORY RESULTS

The primary inventoried types of materials of potential value for deconstruction of the Langdale Mill buildings include lumber, scrap metal/steel, concrete, and brick. Table 1 presents a summary of these materials, including the material type, quantity, and potential market value. Complete inventory results are included in Attachment B. Assumptions and uncertainties associated with material quantities and potential value are discussed below.

Material Quantity Assumptions and Uncertainties

Several assumptions were used to calculate material quantities. Available computer-aided design (CAD) drawings of the site were also referenced for calculations when field measurements were not available or to check estimated field measurements. As noted previously, quantity units are based on information from vendors regarding local industry standards; for example, lumber dealers use BF (or for some sheet lumber types, sf), while metal scrap businesses deal in weight. Lumber calculation assumptions were based on the percent salvageable material estimated during field inventory activities. Metal pipe weight calculations were based on linear pipe estimates and do not include the various sized joints, valves, flanges, and connectors associated with piping systems; therefore, the quantity calculations for piping systems are likely conservatively low. Uncertainties in the metal inventory quantities also exist because the age or nature of the materials did not allow easy conversions into weight; for example, some materials had non-standard dimensions or the material alloy or density was unknown. Assumptions were made based on professional judgment, metal weight calculators, conversion factors, and other resources (see Attachment D) to determine the weight of the various metal components for the inventory.

TABLE 1
MATERIAL INVENTORY SUMMARY
LANGDALE MILL BUILDINGS
VALLEY, ALABAMA

| Lumber | | |
|---|--|--------------------------|
| Material Type | Estimated Quantity (board feet) | Approximate Value |
| <2-inch width (2x) painted | 11,500 | \$11,500 |
| <2-inch width (2x) unpainted | 49,300 | \$49,300 |
| >2-inch width (2x) painted | 22,500 | \$33,750 |
| >2-inch width (2x) unpainted | 25,700 | \$38,550 |
| Total | 109,000 | \$133,100 |
| Metal | | |
| Material Type | Estimated Quantity (pounds) | Approximate Value |
| Pipe/conduit/handrails | 74,700 | \$3,700 |
| Metal Coils | 7,400 | \$400 |
| Metal Shelving | 24,600 | \$1,200 |
| Structural Steel (I-beams, support posts, etc.) | 51,000 | \$2,600 |
| Floor Plates | 52,900 | \$2,700 |
| Walkway grating | 8,300 | \$400 |
| AST and Compressor tanks | 53,800 | \$2,700 |
| Fluorescent light fixtures | 2,100 | \$100 |
| Other Metal (flashing, gutter plates, doors, exterior wall siding, machinery) | 15,000 | \$800 |
| Total | 289,800 | \$14,500 |
| Other Materials | | |
| Material Type | Estimated Quantity (bricks) | Approximate Value |
| Brick | 63,100 | \$15,800 |

Notes:

“2x” lumber refers to boards that are 2-inch width.

Lumber less than 2x was estimated at a value of \$1.00 per board foot; prices range in price based on size and wood type.

Lumber greater than 2x was estimated at a value of \$1.50 per board foot; prices range in price based on size and wood type.

Metal was estimated at a scrap value of \$5.00 per 100 pounds based on current market value.

Bricks were estimated at a value \$0.25 per brick if cleaned and palletized; unit price fluctuates greatly with market demands.

In addition to the uncertainties associated with the assumptions required, the material quantities and values presented are approximate based on dimensions and other building parameters that could be measured during the field survey. Certain building elements, such as unexposed sub-floors, foundations, and ceiling/roofing materials, could not be readily observed or measured in the field and are not included in the inventory. If these materials are in suitable condition for salvaging through deconstruction, overall material quantities and potential value would increase. Furthermore, the percent of damaged material not suitable for salvaging due to rotting or insect activity was assessed during the field survey based on visual observations. More or less actual damage than that estimated from observations during the field inventory could decrease or increase the amount of salvageable material, particularly for lumber. Additional damage (as much as 30 percent or more) could occur during the deconstruction process, depending on the deconstructability of the buildings—further decreasing the amount of salvageable material. However, as discussed in the next section, a preliminary feasibility assessment for deconstruction of the inventoried buildings indicates a number of assessment criteria are met for successful deconstruction, thus reducing the percent damage to materials anticipated during the deconstruction process.

Salvage Value Assumptions and Uncertainties

Potential salvage value is based on information provided by local vendors. Specifically, lumber and scrap metal value was based on information provided by A.L. Roy Lumber Company and EJ Knight Scrap Material Company, respectively. Metal value was calculated based on the likely assumption that the material would be recycled as scrap for approximately \$5.00 per 100 pounds. However, if the material could be sold for reuse for its intended purpose (for example, as piping or structural steel), the value could increase.

Vendor information indicates a fairly strong usual market for lumber, with minimum searching effort required. Based on information provided by A. L. Roy Lumber Company, Bessemer, Alabama, the type of lumber at the site is generally hard pine, which has a market value of about \$1.50/BF. This would apply primarily to larger (greater than 2-inch-width or “2x”) lumber. Smaller (2x or less) would be of lesser value; therefore, an average value of \$1.00/BF foot was assumed.

Deconstruction and transportation costs are not included in the value estimates. For both lumber and metal, transportation and container costs could be significant, depending on the market and vendor

location. In addition, depending on the deconstruction time frame, market fluctuations may also influence the value. For example, scrap metal value has decreased approximately 50 percent in the past year, but vendors contacted anticipate a partial market rebound within the next six months.

The large air handling units on top of Weave Room No. 2 (see Attachment C, Photo No. 1) must be dismantled if intended for removal for scrap or reuse. If the air handling units are to be sold for reuse, additional effort to identify a specialty market buyer will be required. Regardless of the end use, dismantling costs for the air handling units and associated structural support would be significant, and efficient deconstruction sequencing (for example, utilizing a crane or other heavy equipment for multiple deconstruction or construction purposes) should be considered. The scrap metal value presented in the inventory includes the structural support steel, walkways, rails, and piping, but not the two large air handling units or other support features for which the weight could not be estimated based on available information.

OBSERVATIONS AND RECOMMENDATIONS

Tetra Tech used the “*Building Deconstruction Feasibility - Preliminary Assessment*” criteria established by Guy and Williams (2004) to qualitatively assess the feasibility of deconstructing the inventoried buildings. General observations and recommendations associated with these criteria and recommendations for material reuse on site are presented below.

Deconstruction Feasibility

- **Overall Building Condition and Safety**: Some water and insect damage was observed, particularly in Warehouses No. 1 and 2 where holes in the roof exist. However, the buildings appeared generally safe, and the lumber and other building materials inventoried are mostly salvageable. Larger dimensional lumber used as structural members should be removed by properly trained or experienced workers
- **Building Dimensions, Accessibility, and Complexity**: Single-story building heights, few interior walls or partitions, gently sloped roofs, and clear access to multiple sides of Warehouses No. 1 through 5 and the Farmer’s Market will help facilitate a successful deconstruction. However, access to the rooftop air handling unit will be difficult due to the height of the building and the size and weight of the structural steel and other elements of the unit. Warehouses No. 1 and 2 should be deconstructed first to facilitate access to the other structures.
- **Entanglement**: Fire suppression and electrical systems are present, but they are visible and accessible and should not pose significant obstacles to deconstruction. These systems can provide scrap metal value.

- **Asbestos and Hazardous Materials:** According to field measurements, approximately 4,200 sf of exterior siding that appeared to be asbestos-containing material (ACM) is present on Warehouses No. 1 and 2 (see Photo No. 2); ACM may also be present in the roof coating materials. ACM material should be properly tested and managed accordingly; associated ACM management and disposal costs should be added to the cost of deconstruction. In addition, more than 400 fluorescent light fixtures were also present; light fixtures may be salvaged for scrap metal value, but the associated fluorescent lamps should be removed and disposed of as “universal waste” according to the applicable regulations found in Alabama Department of Environmental management (ADEM) Administrative Code Chapter 335-14-11.
- **Materials and Salvage Potential:** As noted in the inventory, the percent damaged dimensional lumber and other salvageable material is relatively low. However, some of the dimensional lumber present is painted; based on the age of the buildings, coating materials may be lead-based paint (LBP). Stripping paint from smaller (1x and 2x) pieces will be less cost-effective than stripping larger (greater than 6x) timbers. Proper health and safety precautions and management must be applied for LBP materials.
- **Mobilization:** The buildings to be deconstructed are in close proximity to each other and readily accessible from local streets. Therefore, mobilizing equipment, workers, roll-off boxes, supplies, and support facilities to the site should not be a problem, and re-mobilization for deconstruction of different buildings should not be necessary.
- **Garbage:** The garbage observed in the buildings should not be a significant hindrance to the deconstruction process. However, the buildings (particularly the Farmer’s Market Area and Warehouse No. 3) are being used for storage of materials associated with ongoing activities at the facility. In addition, shelving units and fiberboard containers that may be salvaged as scrap or reused on site (see below) were present. These materials must be removed prior to deconstruction.
- **Labor:** Community revitalization goals for the redevelopment project include creation of new jobs during and after redevelopment. Based on the building dimensions, accessibility, and complexity, the portion of hand labor required for the deconstruction is relatively high and could create local unskilled jobs or volunteer opportunities while keeping overall deconstruction costs relatively low. Skilled labor to operate equipment for activities such as concrete removal/crushing and deconstruction of the rooftop air handling units will also be required.

Recommendations for On-Site Reuse

As discussed above, materials such as dimensional lumber and scrap metal could be salvaged for profit. However, the following recommendations for reusing these materials on site as part of the redevelopment project should also be considered:

- **Lumber:** As noted above, lumber could be sold for salvage at up to \$1.50/BF. However, on-site reuse of this material as part of redevelopment efforts will promote sustainability aspects of the project and highlight the site’s rich architectural and industrial heritage. Milling and reusing the lumber in an on-site artist studio or carpentry/furniture shop would provide additional job opportunities and may generate additional income for the project. Smaller (less than 2x) lumber, which is of lesser value on the salvage market than larger timbers, would be best used for the

shops or on-site reuse milling. This smaller lumber, particularly the 2x4 framing structure of the Farmer's Market Area, could also be reused for local, low-income housing redevelopment. Lumber with no salvage value or reuse potential could be shredded for use as mulch on site.

- Metal Shelving Units: The metal-framed shelving units (see Photograph No. 3) could provide up to \$1,200 in scrap metal value, and the 2x4 lumber shelving slats have some limited salvageable lumber value. However, if dimensional lumber is to be kept on site for milling and reuse as discussed above, these shelving units could be used in the carpentry shop or elsewhere at the site to store lumber (or other materials) prior to reuse. These shelving units could provide more than 14,600 cubic feet (CF) of storage space. Shelving frames or brackets could also be used by local artists as materials for metal sculptures or other artwork.
- Pressed Metal Fascia: Approximately 2,700 sf of pressed metal (likely tin), faux brick fascia was noted on site (see Photograph 4). This material could be refinished and reused on walls or ceilings of the redevelopment to highlight the historical architecture of the mill and promote the sustainability aspects of the project.
- Sliding Doors: One large (approximately 6- by 6-foot) sliding track, wooden door with an interesting pressed metal finish could be reused in the redevelopment rather than salvaging the lumber and metal for relatively little value (see Photograph No. 5). This door is located between Warehouses 4 and 5. Incorporating this and other similar doors into the redevelopment project would highlight the site's architectural and industrial heritage
- Oil Storage and Compressor Tanks: Two large oil storage tanks and several compressor tanks (see Photographs No. 6 and 7) could be sold as scrap metal for approximately \$2,700. However, the tanks could also be reused on site as cisterns to collect rainwater for irrigating a community garden at the site, irrigating general site landscaping, or supplying water for other gray water applications. This reuse would allow for more sustainable operation of the facility, reduce site operating costs, and provide an opportunity for public interpretation of these sustainable practices. The tanks could also be used by local artists as material for sculptures or other artwork. Proper cleaning the tanks, particularly the oil storage tanks, would be required before reuse.
- Sprinkler System and Plates: The sprinkler or fire suppression system piping in Warehouses No. 1 through 5 can be salvaged for scrap metal value. However, certain interesting features such as valves and manufacturer or other system identification plates (see Photograph No. 8) could be refinished and reused decoratively in the redevelopment project and to highlight the site history.
- Metal Walkway Grating and Hand Rails: Approximately 350 feet of metal walkway grating and associated handrails from the rooftop air handling unit (see Photograph No. 9) could be salvaged as scrap metal for an approximate value of \$600. These items should be considered for on-site reuse in the redevelopment in areas that may require a walkway, such as within the community garden area. On-site reuse would provide an opportunity to further interpret and promote the sustainability aspects of the project.
- Corrugated Metal Sheeting: The walls of the current structure in the Farmer's Market Area contain about 2,000 sf of corrugated metal sheeting. This metal sheeting could be sold as scrap metal for approximately \$400. However, the condition of about 1,900 sf of this material is good, such that it could be reused on site as siding or roofing material for a small building or shed. Potential uses for such a building include storage of (1) equipment, mulch, or other supplies for a community garden or other site landscaping activities or (2) other deconstructed building materials to be used on site. The 2x4 framing that currently supports the corrugated metal sheeting, which was a relatively low salvage value, could be used to frame the new building.

- Storage Containers: Approximately 2,900, 16-inch-diameter by 36-inch tall fiberglass/fiberboard storage containers with metal coils to spring-load the bottoms were observed in Warehouses No. 2 and 5 (see Photograph No. 10). These containers could be sold for reuse or recycled. The approximately 7,400 pounds of steel coils could also be salvaged as scrap metal for an approximate value of \$370.
- Concrete: According to field measurements, approximately 2,900 CF of exposed concrete walkways, pilings, floors, and foundation elements exist in Warehouses No. 1 through 5 that could be segregated, and crushed if necessary, for reuse on site use as rip-rap, aggregate, fill, or sub-base for roads, sidewalks, or walking trails. Unexposed sub-floors and foundations that could not be readily observed or measured in the field are not included in the inventory and could significantly increase the quantity of this material available for reuse.
- Brick: According to field measurements and the dimensions and arrangement of bricks in Warehouses No. 1 through 5, approximately 63,100 individual bricks could be salvaged if the walls would be carefully deconstructed and the bricks segregated. If carefully deconstructed, cleaned, and palletized, the bricks could be sold for reuse. The value depends on market demands, but the bricks could sell for \$0.25 each or approximately \$15,800. However, according to local vendors contacted, current market demand may not allow for sale of the brick. Where structurally appropriate, the bricks could also be reused as part of the on-site redevelopment to recreate the historic architectural masonry of the site or as retaining walls or other decorative structures. The manual labor required to segregate, clean, and palletize the bricks for reuse could create low-skilled jobs or volunteer opportunities for the local community. Brick that cannot be reused on site could also be crushed for reuse on site as material for roads, sidewalks, or walking trails.

The information gathered as part of this inventory can be used for determining whether building materials should be salvaged for re-sale, on-site reuses, or off-site disposal. Based on discussions with local vendors, off-site disposal and transportation may range in price from \$20 to \$120 per ton of material, depending on the level of transportation or other support needed in removal. Local landfill tipping fees for construction and demolition waste disposal would be about \$20 per ton for nonhazardous materials and debris.

Based on discussions with the pilot project partners, Tetra Tech recommends that the decision to reuse, dispose of, or sell deconstructed materials should not be regarded as a simple cost-benefit analysis for this site. Factors such as the potential for job creation and opportunities to enhance and promote sustainability of the redevelopment project should also be considered. Specific items intended for salvage or on-site reuse should be identified in the deconstruction bid package specifications for consideration in the deconstruction contractor's waste management plan.

ATTACHMENT A
SITE LAYOUT

REVISIONS

| NO. | DATE | DESCRIPTION |
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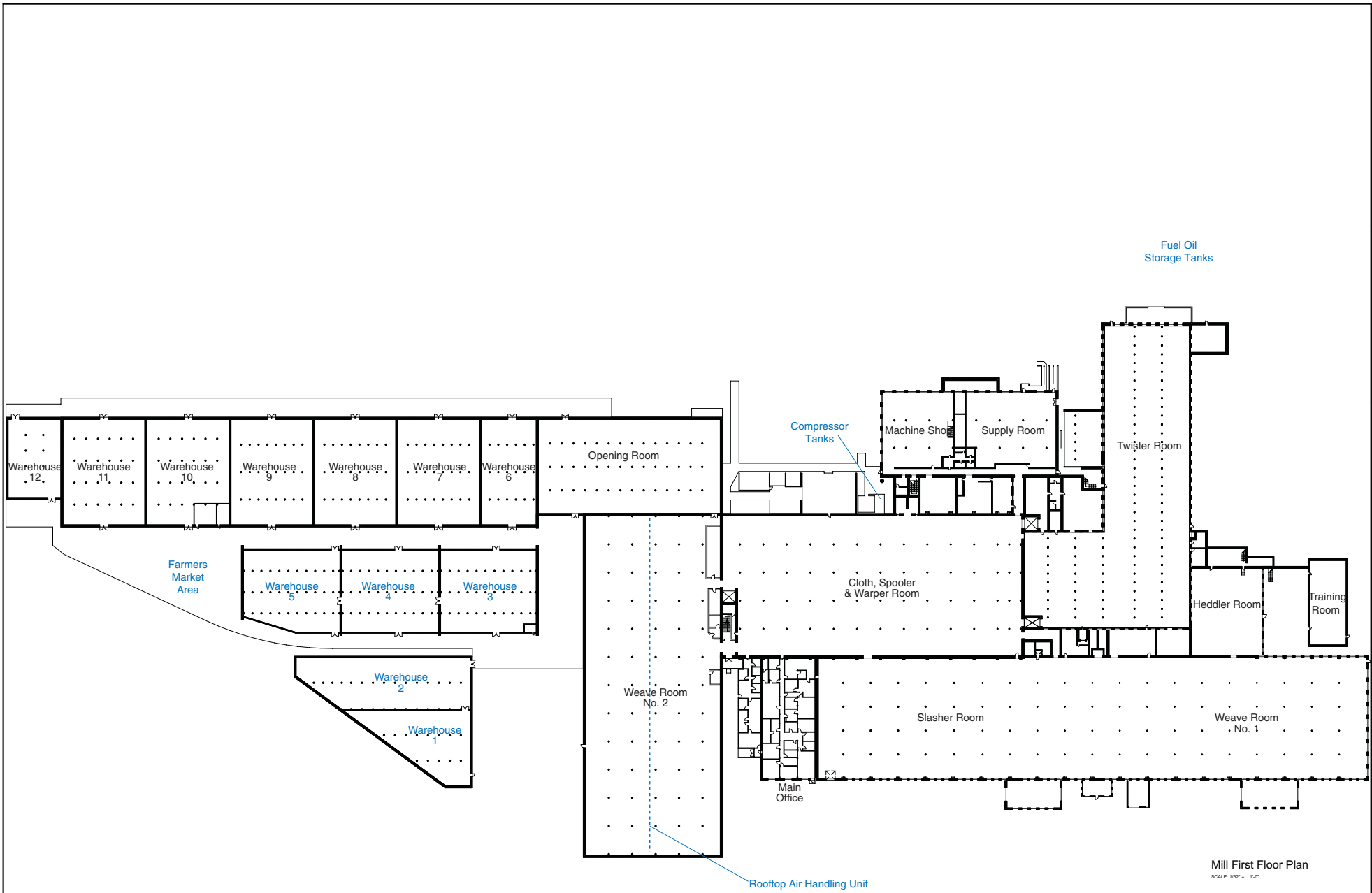
Floor Plans

Mill First Floor Plan

JOB NUMBER
0512

DATE
12/20/2007

SHEET NUMBER



Mill First Floor Plan
SCALE: 1/32" = 1'-0"

ATTACHMENT B

**DECONSTRUCTION INVENTORY
LANGDALE MILL, VALLEY, ALABAMA**

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 1

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--------------------------|---|---|--------------------|-------|--|---------------------------------------|---|-------|--|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/ Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 1 | concrete | foundation and flooring | — | 610 | SF | Unpainted, mostly good condition | — | 610 | SF | Disposal, on-site reuse | — | |
| 2 | concrete | support posts | 50, 12" X 12" X 48" | 200 | SF | Unpainted, mostly good condition | — | 200 | SF | Disposal, on-site reuse | — | |
| 3 | lumber | floor joist | 7.5" x 11.5" x 12' 3", actual | 3420 | BF | Unpainted, mostly good condition, unsalvagable due to water damage | 20% | 2730 | BF | Sell for salvage, on-site reuse | \$5,000 | |
| 4 | lumber | posts | 5.5" x 5.5" x 8'4", actual | 530 | BF | Painted, mostly good condition | 0% | 530 | BF | Sell for salvage, on-site reuse | \$795 | Possible LBP |
| 5 | lumber | wall materials | 4" x 8" x 4' | 520 | BF | Painted | 15% | 440 | BF | Sell for salvage, on-site reuse | \$660 | Possible LBP |
| 6 | lumber | wall materials | 2" x 6", various lengths | 980 | BF | Painted | 15% | 830 | BF | Sell for salvage, on-site reuse | \$830 | Possible LBP |
| 7 | lumber | wall materials | 4" x 6" x 7' | 1370 | BF | Painted | 15% | 1160 | BF | Sell for salvage, on-site reuse | \$1,700 | Possible LBP |
| 8 | lumber | ceiling beam | 13" x 8" x 24' | 4130 | BF | Painted | 15% | 3510 | BF | Sell for salvage, on-site reuse | \$5,300 | Possible LBP |
| 9 | lumber | ceiling materials | 3.5" x 8", assumed to be 10' and 12' lengths | 8090 | BF | Painted | 15% | 6870 | BF | Sell for salvage, on-site reuse | \$10,300 | Possible LBP |
| 10 | lumber | ceiling materials | 3.5" x 6", assumed to be 10' and 12' lengths | 8090 | BF | Painted | 15% | 6870 | BF | Sell for salvage, on-site reuse | \$10,300 | Possible LBP |
| 11 | lumber - plywood | wall materials | Mostly standard size, 4' x 8' x 0.75" | 410 | SF | Painted | 15% | 340 | SF | Disposal | — | Possible LBP |
| 12 | lumber - tongue & groove | floor materials | 3.5"x6" mostly 10' in length some 12' lengths, actual | 2260 | BF | Unpainted, mostly good condition, unsalvagable due to water damage | 20% | 1800 | BF | Sell for salvage, on-site reuse | \$2,700 | |
| 13 | lumber - tongue & groove | floor materials | 3.5"x8" mostly 10' in length some 12' lengths, actual | 2290 | BF | Unpainted, mostly good condition, unsalvagable due to water damage | 20% | 1830 | BF | Sell for salvage, on-site reuse | \$2,750 | |
| 14 | lumber - tongue & groove | wall materials | 1" x 6", various lengths | 1100 | BF | Unpainted, mostly good condition, unsalvagable due to water damage | 15% | 930 | BF | Sell for salvage, on-site reuse | \$930 | |
| 15 | lumber - tongue & groove | wall materials, partition wall between warehouses 1 and 2, listed here only | 1" x 6", various lengths | 140 | BF | Painted, mostly good condition, unsalvagable due to water damage | 15% | 110 | BF | Sell for salvage, on-site reuse | \$110 | Possible LBP |
| 16 | metal | post reinforcement | 2" x 0.5" x 30" -49 pieces | 120 | ft | Painted, mostly good condition | — | 120 | ft | Sell for scrap metal value | \$50 | Possible LBP |
| 17 | metal | flourescent light fixtures | fixtures fitting 2, 4' bulbs | 20 | ea | Damaged | — | 20 | ea | Sell for scrap metal value | \$10 | |
| 18 | metal | flourescent light fixtures | fixtures fitting 4, 4' bulbs | 1 | ea | Damaged | — | 0 | ea | Sell for scrap metal value | \$1 | |
| 19 | metal | metal machinery, roller | 81" x 81" x 102" | 1 | ea | Damaged | — | 0 | ea | Sell for scrap metal value, sell for reuse | Unknown | |

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 1

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--|--|--|--------------------|-------|------------------------------------|---------------------------------------|---|-------|----------------------------|------------------------------|----------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 20 | metal - cast iron | exterior pipes that drain the gutter, warehouses 1 and 2, listed here only | 4.5" diameter | 80 | ft | Unpainted, mostly good condition | — | 80 | ft | Sell for scrap metal value | \$70 | |
| 21 | metal - cast iron | sprinkler system pipes | 1" diameter | 70 | ft | Unpainted, mostly good condition | — | 70 | ft | Sell for scrap metal value | \$5 | Possible LBP |
| 22 | metal - cast iron | sprinkler system pipes | 1.5" diameter | 70 | ft | Unpainted, mostly good condition | — | 70 | ft | Sell for scrap metal value | \$5 | Possible LBP |
| 23 | metal - cast iron | sprinkler system pipes | 1.75" diameter | 200 | ft | Unpainted, mostly good condition | — | 200 | ft | Sell for scrap metal value | \$20 | Possible LBP |
| 24 | metal - cast iron | sprinkler system pipes | 2.5" diameter | 140 | ft | Unpainted, mostly good condition | — | 140 | ft | Sell for scrap metal value | \$60 | Possible LBP |
| 25 | metal - cast iron | sprinkler system pipes | 4" diameter | 110 | ft | Unpainted, mostly good condition | — | 110 | ft | Sell for scrap metal value | \$80 | Possible LBP |
| 26 | metal - cast iron | sprinkler system pipes | 6" diameter | 10 | ft | Unpainted, mostly good condition | — | 10 | ft | Sell for scrap metal value | \$10 | Possible LBP |
| 27 | metal - galv. steel | gutter, warehouses 1 and 2, listed here only | Runs the perimeter of warehouses 1 and 2, 10" x 6" | 520 | ft | Unpainted, mostly good condition | — | 520 | ft | Sell for scrap metal value | \$50 | |
| 28 | metal - galv. steel | electrical conduit pipe | 0.75" diameter | 2170 | ft | Unpainted, mostly good condition | — | 2170 | ft | Sell for scrap metal value | \$50 | |
| 29 | metal - galv. steel | electrical conduit pipe | 2" diameter | 60 | ft | Unpainted, mostly good condition | — | 60 | ft | Sell for scrap metal value | \$5 | |
| 30 | other - 6 glass panes and metal framed | window panes | 2' x 4' | 10 | SF | Painted, mostly good condition | 0% | 10 | SF | Disposal, on-site reuse | — | Possible LBP |
| 31 | other - foam | ceiling tiles | Area of ceiling covered is 40' N to S, WH1 only | 2720 | SF | Unsalvageable, Painted | 100% | 0 | SF | Disposal | — | Possible LBP |
| 32 | other - masonite | exterior siding, warehouses 1 and 2, listed here only | — | 630 | SF | Poor Condition, Painted | 0% | 630 | SF | Disposal | — | Possible LBP, Possible ACM |
| 33 | other - shingles | exterior siding, warehouses 1 and 2, listed here only | 12" x 24" x 0.25" | 3600 | SF | Variable Condition, many crumbling | 20% | 2880 | SF | Disposal | — | Possible ACM |

Notes:

- ¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible.
Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.
- ² Metal values are based on \$5.00 per 100 lbs of metal
Bricks are estimated based on \$0.25 per brick if cleaned and palletized

LBP Lead-based paint
ACM Asbestos Containing Material
BF Board feet
CF Cubic feet
SF Square feet
ft Linear feet
ea Each

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 2

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--------------------------|--------------------|---|--------------------|-------|---|---------------------------------------|---|-------|--|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 1 | brick | foundation | 8" x 4" x 2" | 250 | ea | Variable condition, many crumbling, not able to see exact quantity | — | 250 | BF | Sell for salvage (if condition permits), on-site reuse | — | |
| 2 | concrete | foundation | 2, 10'8" x 49' x 4' slabs | 170 | CF | Unpainted, good condition | — | 170 | BF | Disposal, on-site reuse | — | |
| 3 | concrete | pilings | 12" x 12" x 48" | 200 | CF | Unpainted, good condition | — | 200 | BF | Disposal, on-site reuse | — | |
| 4 | concrete blocks | foundation | Standard size | Unknown | — | Visible blocks in good condition | — | 0 | BF | Disposal, on-site reuse | — | |
| 5 | lumber | floor joist | 7.5" x 11.5" x 12' 3", actual | 5540 | BF | Unpainted, mostly good condition, unsalvageable due to water damage | 20% | 4430 | BF | Sell for salvage, on-site reuse | \$6,650 | |
| 6 | lumber | posts | 5.5"x5.5"x8'4", actual | 1030 | BF | Unpainted, good condition | — | 1030 | BF | Sell for salvage, on-site reuse | \$1,550 | |
| 7 | lumber | posts | 2" x 6" x 8'4" actual | 220 | BF | Unpainted | 15% | 180 | SF | Sell for salvage, on-site reuse | \$180 | |
| 8 | lumber | wall materials | 2" x 6", various lengths | 2730 | BF | Unpainted | 15% | 2320 | BF | Sell for salvage, on-site reuse | \$2,300 | |
| 9 | lumber | ceiling beams | 8" x 13" x 24' | 6740 | BF | Unpainted | 15% | 5720 | BF | Sell for salvage, on-site reuse | \$8,600 | |
| 10 | lumber | ceiling materials | 3.5" x 6", assumed to be 10' and 12' lengths | 3460 | BF | Painted | 15% | 2940 | BF | Sell for salvage, on-site reuse | \$4,400 | |
| 11 | lumber | ceiling materials | 3.5" x 8", assumed to be 10' and 12' lengths | 3460 | BF | Unpainted | 15% | 2940 | BF | Sell for salvage, on-site reuse | \$4,400 | |
| 12 | lumber | lumber - pallet #5 | 2" x 4", 4 to 12' lengths | 270 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 270 | BF | Sell for salvage, on-site reuse | \$300 | Possible LBP |
| 13 | lumber - plywood | wall materials | Mostly standard size, 4' x 8' x 0.75" | 550 | SF | Painted | 15% | 460 | BF | Disposal | — | Possible LBP |
| 14 | lumber - tongue & groove | floor materials | 3.5"x8" mostly 10' in length some 12' lengths, actual | 25900 | BF | Unpainted, mostly good condition, unsalvageable due to water damage | 20% | 20720 | BF | Sell for salvage, on-site reuse | \$31,050 | |
| 15 | lumber - tongue & groove | wall materials | 1" x 6", various lengths | 1990 | BF | Unpainted, mostly good condition, unsalvageable due to water damage | 15% | 1690 | BF | Sell for salvage, on-site reuse | \$1,700 | |
| 16 | lumber - tongue & groove | lumber - pallet #1 | 1" x 4", 10' to 12' lengths | 1580 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 1580 | BF | Sell for salvage, on-site reuse | \$1,600 | Possible LBP |
| 17 | lumber - tongue & groove | lumber - pallet #2 | 1" x 4", 2' to 4' lengths | 140 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 140 | BF | Sell for salvage, on-site reuse | \$140 | Possible LBP |
| 18 | lumber - tongue & groove | lumber - pallet #3 | 1" x 4", 2' to 4' lengths | 140 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 140 | BF | Sell for salvage, on-site reuse | \$140 | Possible LBP |
| 19 | lumber - tongue & groove | lumber - pallet #4 | 1" x 4", 2' to 4' lengths | 150 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 150 | BF | Sell for salvage, on-site reuse | \$150 | Possible LBP |
| 20 | lumber - tongue & groove | lumber - pallet #6 | 1" x 4" x 4' | 580 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 580 | BF | Sell for salvage, on-site reuse | \$600 | Possible LBP |
| 21 | lumber - tongue & groove | lumber - pallet #7 | 1" x 4" x , 3' to 8' lengths | 590 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 590 | BF | Sell for salvage, on-site reuse | \$600 | Possible LBP |
| 22 | lumber - tongue & groove | lumber - pallet #8 | 1" x 4" x 5' | 720 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 720 | SF | Sell for salvage, on-site reuse | \$700 | Possible LBP |
| 23 | lumber - tongue & groove | lumber - pallet #9 | 1" x 4" x 8', (90%) 1" x 4" x 2', (10%) | 3150 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 3150 | ft | Sell for salvage, on-site reuse | \$3,150 | Possible LBP |

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 2

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--|--------------------------------------|---|--------------------|-------|---|---------------------------------------|---|-------|---------------------------------|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 24 | lumber - tongue & groove | lumber - pallet #10 | 1" x 4" average length 6', range 2 to 12' lengths | 790 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 790 | ea | Sell for salvage, on-site reuse | \$800 | Possible LBP |
| 25 | lumber - tongue & groove | lumber - pallet #11 | 1" x 4" x 8', (ave length), range 6 to 10' | 580 | BF | Painted and unpainted, mostly good condition, likely former interior wall | 0% | 580 | ea | Sell for salvage, on-site reuse | \$600 | Possible LBP |
| 26 | lumber (no notes on tongue in groove) | floor materials | 1"x4", unknown lengths due to excessive debris | 490 | BF | Unpainted, mostly good condition, unsalvageable due to water damage | 20% | 390 | ft | Sell for salvage, on-site reuse | \$400 | |
| 27 | lumber finished (quantity not available) | floor materials | 1"x10", unknown lengths due to excessive debris | 0 | ft | Unpainted, unsalvageable due to water damage | 0% | 0 | ft | Disposal, on-site reuse | \$0 | |
| 28 | metal | floor materials | 4' x 8' x 0.25" -10 plates | 320 | SF | Unpainted, good condition | — | 320 | ft | Sell for scrap metal value | \$140 | |
| 29 | metal | post reinforcement | 0.5" x 2" x 30" -200 pieces | 500 | ft | Unpainted, mostly good condition | — | 500 | ft | Sell for scrap metal value | \$200 | |
| 30 | metal | flourescent light fixtures | fixtures fitting 2, 4' bulbs | 50 | ea | Mostly damaged | — | 50 | ft | Sell for scrap metal value | \$25 | |
| 31 | metal | flourescent light fixtures | fixtures fitting 4, 4' bulbs | 2 | ea | Mostly damaged | — | 0 | ft | Sell for scrap metal value | \$1 | |
| 32 | metal - cast iron | exterior pipes that drain the gutter | 3 pipes 12' in length and 3.5" diameter | 30 | ft | Unpainted | — | 30 | ft | Sell for scrap metal value | \$20 | |
| 33 | metal - cast iron | sprinkler system pipes | 1" diameter | 580 | ft | Unpainted, mostly good condition | — | 580 | ft | Sell for scrap metal value | \$30 | |
| 34 | metal - cast iron | sprinkler system pipes | 1.75" diameter | 150 | ft | Unpainted, mostly good condition | — | 150 | ea | Sell for scrap metal value | \$20 | |
| 35 | metal - cast iron | sprinkler system pipes | 4" diameter | 180 | ft | Unpainted, mostly good condition | — | 180 | ea | Sell for scrap metal value | \$130 | |
| 36 | metal - cast iron | sprinkler system pipes | 1.5" diameter | 50 | ft | Unpainted, mostly good condition | — | 50 | ft | Sell for scrap metal value | \$5 | |
| 37 | metal - galv. steel | exterior pipes that drain the gutter | 3 pipes 12' in length and 3.5" diameter | 30 | ft | Unpainted, good condition | — | 30 | ft | Sell for scrap metal value | \$20 | |
| 38 | metal flashing | ceiling materials | 13" x 0.25" | 60 | ft | Unpainted, mostly good condition | — | 60 | ft | Sell for scrap metal value | \$30 | |
| 39 | metal galv. steel | electrical conduit pipe | 0.75" diameter | 1570 | ft | Unpainted, mostly good condition | — | 1570 | ft | Sell for scrap metal value | \$40 | |
| 40 | other | flourescent light bulbs | 4' | 90 | ea | Used | — | 90 | ea | Disposal | | Universal Waste |
| 41 | other - fiber board cotton barrels | mill materials | 15" diameter 36" tall | 400 | ea | ~50% in good shape, many full of cotton, may have wire coils | 50% | 200 | ea | Sell for reuse, disposal | — | |

Notes:

¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible.
Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.

² Metal values are based on \$5.00 per 100 lbs of metal
Bricks are estimated based on \$0.25 per brick if cleaned and palletized

LBP Lead-based paint
BF Board feet
CF Cubic feet
SF Square feet
ft Linear feet
ea Each

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 3

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--------------------------|--------------------------------------|--|--------------------|-------|---|---------------------------------------|---|-------|---|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 1 | brick | foundation | 2" x 4" x 8" | 8960 | ea | Variable condition, many crumbling | 35% | 5820 | ea | Sell for salvage, on-site reuse | \$1,460 | |
| 2 | brick | wall materials | 2" x 4" x 8" | 24010 | ea | Variable condition, many crumbling | 35% | 15600 | ea | Sell for salvage, on-site reuse | \$3,900 | |
| 3 | concrete | floors | — | 340 | CF | Unpainted, good condition | — | 340 | CF | Disposal, on-site reuse | — | |
| 4 | concrete | walkway and pilings | — | 1400 | CF | Unpainted, good condition | — | 1400 | CF | Disposal, on-site reuse | — | |
| 5 | lumber | exterior wall materials | 2" x 8", 8 to 11' lengths | 350 | BF | Painted, good condition | 10% | 310 | BF | Sell for salvage, on-site reuse | \$310 | Possible LBP |
| 6 | lumber | floor materials | 1" x 8" x 8 to 16' lengths | 6160 | BF | Unpainted, good condition, worn, no rot | 10% | 5540 | BF | Sell for salvage, on-site reuse | \$5,540 | |
| 7 | lumber | floor materials | 1" x 4", no visible lengths | 1510 | BF | Unpainted, good condition, worn, no rot | 10% | 1350 | BF | Sell for salvage, on-site reuse | \$1,350 | |
| 8 | lumber | ceiling beams | 2" x 12" x 18' (average) range of 16 to 20' | 6840 | BF | Unpainted, good condition | 15% | 5810 | BF | Sell for salvage, on-site reuse | \$5,800 | |
| 9 | lumber | ceiling materials | 2" x 12", visible lengths are 16' | 14400 | BF | Unpainted, good condition | 15% | 12240 | BF | Sell for salvage, on-site reuse | \$12,240 | |
| 10 | lumber | ceiling materials | 1" x 8" no visible lengths | 7200 | BF | Unpainted, good condition | 15% | 6120 | BF | Sell for salvage, on-site reuse | \$6,120 | |
| 11 | lumber | posts | 6" x 6", 8.5' length in center row of building, 7.5' on two outer rows | 710 | BF | Unpainted, good condition, worn, no rot | 5% | 670 | BF | Sell for salvage, on-site reuse | \$1,000 | |
| 12 | lumber | wall materials | 2" x 6" x 7.5' | 140 | BF | Unpainted, good condition | 5% | 130 | BF | Sell for salvage, on-site reuse | \$130 | |
| 13 | lumber | wall posts | 4" x 8" x 6.5' | 190 | BF | Unpainted, good condition | 5% | 180 | BF | Sell for salvage, on-site reuse | \$270 | |
| 14 | lumber | wall materials | 1" x 7.5', 9 to 12" widths | 630 | BF | Unpainted, good condition | 5% | 590 | BF | Sell for salvage, on-site reuse | \$600 | |
| 15 | lumber | wall materials | 2" x 6", varying lengths | 80 | BF | Unpainted, good condition | 5% | 70 | BF | Sell for salvage, on-site reuse | \$70 | |
| 16 | lumber | wall materials | 2" x 4", varying lengths | 60 | BF | Unpainted, good condition | 5% | 50 | BF | Sell for salvage, on-site reuse | \$50 | |
| 17 | lumber | stored lumber | 3" x 8" x 16' | 190 | BF | Unpainted, good condition | 5% | 180 | BF | Sell for salvage, on-site reuse | \$270 | |
| 18 | lumber | shelving unit inserts | 2' x 4" x 36" (280 slats) | 560 | BF | Unpainted, mostly good condition | 0% | 560 | BF | Sell for salvage, on-site reuse | \$840 | |
| 19 | lumber - plywood | break room walls | 4' x 8' | 1060 | SF | Painted, mostly good condition | 0% | 1060 | SF | Disposal | — | Possible LBP |
| 20 | lumber - tongue & groove | exterior wall materials | 1" x 5" x 9' | 310 | BF | Painted, good condition | 10% | 270 | BF | Sell for salvage, on-site reuse | \$270 | Possible LBP |
| 21 | lumber - tongue & groove | wall materials | 1" x 6" x 7.5' | 630 | BF | Unpainted, good condition | 5% | 590 | BF | Sell for salvage, on-site reuse | \$600 | |
| 22 | metal | flourescent light fixtures | fixtures fitting 2, 4' bulbs | 50 | ea | Mostly damaged | — | 50 | ea | Sell for scrap metal value | \$25 | |
| 23 | metal | shelving unit | 58" x 36" x 6' -10 units | 730 | ft | Unpainted, mostly good condition | — | 730 | ft | Sell for scrap metal value, on-site reuse | \$110 | |
| 24 | metal - cast iron | exterior pipes that drain the gutter | 6" diameter | 50 | ft | Painted, mostly good condition | — | 50 | ft | Sell for scrap metal value | \$50 | Possible LBP |
| 25 | metal - cast iron | sprinkler system pipes | 1" diameter | 80 | ft | Painted, mostly good condition | — | 80 | ft | Sell for scrap metal value | \$5 | Possible LBP |
| 26 | metal - cast iron | sprinkler system pipes | 2" diameter | 1200 | ft | Painted, mostly good condition | — | 1200 | ft | Sell for scrap metal value | \$160 | Possible LBP |
| 27 | metal - cast iron | sprinkler system pipes | 2.5" diameter | 270 | ft | Painted, mostly good condition | — | 270 | ft | Sell for scrap metal value | \$60 | Possible LBP |

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 3

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--|---|------------------------------|--------------------|-------|---|---------------------------------------|---|-------|---------------------------------|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 28 | metal - cast iron | sprinkler system pipes | 3.5" diameter | 30 | ft | Painted, mostly good condition | — | 30 | ft | Sell for scrap metal value | \$20 | Possible LBP |
| 29 | metal - cast iron | sprinkler system pipes | 4.5" diameter | 270 | ft | Painted, mostly good condition | — | 270 | ft | Sell for scrap metal value | \$225 | Possible LBP |
| 30 | metal - cast iron | sprinkler system pipes | 7" diameter | 10 | ft | Painted, mostly good condition | — | 10 | ft | Sell for scrap metal value | \$15 | Possible LBP |
| 31 | metal - cast iron | sprinkler system pipes | 6" diameter | 40 | ft | Painted, mostly good condition | — | 40 | ft | Sell for scrap metal value | \$40 | Possible LBP |
| 32 | metal - diamond plate steel sheet | floor materials | 4' x 8' x 0.25" - 100 plates | 3200 | SF | Unpainted, good condition | — | 3200 | SF | Sell for scrap metal value | \$1,400 | |
| 33 | metal - galvanized steel | gutter on eastern exterior walls of WH 3, 4, and 5 | 6" x 10" | 270 | ft | Unpainted | — | 270 | ft | Sell for scrap metal value | \$20 | |
| 34 | metal - galvanized steel | electrical conduit pipe | 2" diameter | 260 | ft | Unpainted, mostly good condition | — | 260 | ft | Sell for scrap metal value | \$20 | |
| 35 | metal - galvanized steel | electrical conduit pipe | 1" diameter | 880 | ft | Unpainted, mostly good condition | — | 880 | ft | Sell for scrap metal value | \$45 | |
| 36 | other - fiber board ceiling tiles | break room ceiling materials | 2' x 3' | 340 | SF | Approx. 56 tiles, mostly good condition | — | 340 | SF | Disposal | — | |
| 37 | other - pressed tin, brick shape pattern | exterior/interior siding, western wall of WH 3, 4, and 5. | panels in various shapes | 1240 | SF | Painted, good condition | 10% | 1110 | SF | onsite reuse, or sell for reuse | — | Possible LBP |
| 38 | other | flourescent light bulbs | 4' | 100 | ea | Used | — | 100 | ea | Disposal | — | Universal waste |

Notes:

- ¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible.
Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.
- ² Metal values are based on \$5.00 per 100 lbs of metal
Bricks are estimated based on \$0.25 per brick if cleaned and palletized

LBP Lead-based paint
CF Cubic Feet
SF Square feet
ft Linear feet
ea Each

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 4

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--------------------|---|--|-------------------------|-------|---|---------------------------------------|---|-------|---|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/ Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 1 | brick | wall materials | 2" x 4" x 8" | 45840 | ea | Variable condition, many crumbling | 35% | 29790 | ea | Sell for salvage, on-site reuse | \$7,450 | |
| 2 | brick | foundation | 2" x 4" x 8" | 8960 | ea | Variable condition, many crumbling | 35% | 5820 | ea | Sell for salvage, on-site reuse | \$1,450 | |
| 3 | concrete | walkways | — | included in warehouse 3 | — | — | — | — | — | Disposal, on-site reuse | — | |
| 4 | lumber | wall materials, eastern wall | 1" x 7.5" x 8' | 570 | BF | Unpainted, good condition 640 (minus 67.5 for opening) | 5% | 540 | BF | Sell for salvage, on-site reuse | \$540 | |
| 5 | lumber | wall materials | 2" x 7", 8 to 11' lengths | 80 | BF | Unpainted, good condition | 5% | 70 | BF | Sell for salvage, on-site reuse | \$70 | |
| 6 | lumber | wall materials | plywood, various sizes | 190 | SF | Unpainted, good condition | 5% | 180 | SF | Disposal | — | |
| 7 | lumber | floor materials | 1" x 8" x 8 to 16' lengths | 6330 | BF | Unpainted, good condition, worn, no rot | 5% | 6010 | BF | Sell for salvage, on-site reuse | \$6,000 | |
| 8 | lumber | floor materials | 1" x 4", no visible lengths | 1840 | BF | Unpainted, good condition, worn, no rot | 5% | 1740 | BF | Sell for salvage, on-site reuse | \$1,750 | |
| 9 | lumber | wall materials | 1" x widths range 9 to 12" x 7.5' | 540 | BF | Unpainted, good condition, worn, no rot | 5% | 510 | BF | Sell for salvage, on-site reuse | \$500 | |
| 10 | lumber | wall materials/ vertical and horizontal studs | 4" x 4" x 8' | 370 | BF | Unpainted, good condition, worn, no rot | 5% | 350 | BF | Sell for salvage, on-site reuse | \$525 | |
| 11 | lumber | wall materials/ support post on exterior wall | 4" x 8" x 7' 6" | 320 | BF | Unpainted, good condition, worn, no rot | 0% | 320 | BF | Sell for salvage, on-site reuse | \$480 | |
| 12 | lumber | ceiling beams | 2" x 12" x 18' (average) range of 16 to 20' | 160 | BF | Unpainted, good condition | 15% | 130 | BF | Sell for salvage, on-site reuse | \$130 | |
| 13 | lumber | ceiling materials | 2" x 12", visible lengths are 16' | 12800 | BF | Unpainted, good condition | 15% | 10880 | BF | Sell for salvage, on-site reuse | \$10,900 | |
| 14 | lumber | ceiling materials | 1" x 8" no visible lengths | 6400 | BF | Unpainted, good condition | 15% | 5440 | BF | Sell for salvage, on-site reuse | \$5,440 | |
| 15 | lumber | posts | 6" x 6" x 8.5' length in center row of building. | 180 | BF | Unpainted, good condition, worn, no rot | 5% | 170 | BF | Sell for salvage, on-site reuse | \$250 | |
| 16 | lumber | posts | 6" x 6" x 7.5' on two outer rows | 320 | BF | Unpainted, good condition, worn, no rot | 5% | 300 | BF | Sell for salvage, on-site reuse | \$450 | |
| 17 | lumber | shelving unit inserts | 2' x 4" x 36" | 2520 | BF | Unpainted, mostly good condition - 2 bd ft per slat | 0% | 2520 | BF | Sell for salvage, on-site reuse | \$3,800 | |
| 18 | lumber | shelving unit inserts | 2' x 4" x 61" | 3829 | BF | Unpainted, mostly good condition - 3.39 board ft per slat | 0% | 3820 | BF | Sell for salvage, on-site reuse | \$5,700 | |
| 19 | lumber | shelving unit inserts | 2' x 4" x 97" | 1455 | BF | Unpainted, mostly good condition - 5.39 board ft per slat | 0% | 1450 | BF | Sell for salvage, on-site reuse | \$2,200 | |
| 20 | metal | flourescent light fixtures | fixtures fitting 2, 4' bulbs | 40 | ea | Mostly damaged | — | 40 | ea | Sell for scrap metal value | \$20 | |
| 21 | metal | shelving unit | 58" x 36" x 6' (3 shelves per) 10 ea | 730 | ft | Unpainted, mostly good condition | — | 730 | ft | Sell for scrap metal value, on-site reuse | \$110 | |
| 22 | metal | shelving unit | 68" x 36" x 6' (3 shelves) 35 ea | 2680 | ft | Unpainted, mostly good condition | — | 2680 | ft | Sell for scrap metal value, on-site reuse | \$410 | |

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 4

| Item No. | Building Materials | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--|--------------------------------------|--------------------------------------|--------------------|-------|--|---------------------------------------|---|-------|---|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 23 | metal | shelving unit | 68" x 61" x 6' (3 shelves per) 19 ea | 1700 | ft | Unpainted, mostly good condition | — | 1700 | ft | Sell for scrap metal value, on-site reuse | \$260 | |
| 24 | metal | shelving unit | 68" x 97" x 6' (3 shelves per) 14 ea | 1500 | ft | Unpainted, mostly good condition | — | 1500 | ft | Sell for scrap metal value, on-site reuse | \$230 | |
| 25 | metal | shelving unit | 84" x 61" x 6' (4 shelves per) 9 ea | 1050 | ft | Unpainted, mostly good condition | — | 1050 | ft | Sell for scrap metal value, on-site reuse | \$160 | |
| 26 | metal - cast iron | exterior pipes that drain the gutter | 6" diameter (7' each) | 30 | ft | Unpainted, mostly good condition | — | 30 | ft | Sell for scrap metal value | \$30 | |
| 27 | metal - cast iron | sprinkler system pipes | 2" diameter | 930 | ft | Painted, mostly good condition | — | 930 | ft | Sell for scrap metal value | \$130 | Possible LBP |
| 28 | metal - cast iron | sprinkler system pipes | 4.5" diameter | 10 | ft | Painted, mostly good condition | — | 10 | ft | Sell for scrap metal value | \$10 | Possible LBP |
| 29 | metal - cast iron | sprinkler system pipes | 3.5" diameter | 30 | ft | Painted, mostly good condition | — | 30 | ft | Sell for scrap metal value | \$20 | Possible LBP |
| 30 | metal - diamond plate steel sheet | floor materials | 3, 3.5' x 6' x 0.25" | 20 | SF | Unpainted, good condition | — | 20 | SF | Sell for scrap metal value, on-site reuse | \$10 | |
| 31 | metal - galv. Steel | electrical conduit pipe | 1" diameter | 800 | ft | Unpainted, mostly good condition | — | 800 | ft | Sell for scrap metal value | \$30 | |
| 32 | metal - galv. Steel | electrical conduit pipe | 2" diameter | 320 | ft | Unpainted, mostly good condition | — | 320 | ft | Sell for scrap metal value | \$25 | |
| 33 | other | flourescent light bulbs | 4' | 80 | ea | Used | — | 80 | ea | Disposal | — | Universal Waste |
| 34 | other - pressed tin, brick shape pattern | exterior wall siding | panels in various shapes | 330 | SF | Painted, mostly good condition. 400 minus 67.5 sq. ft. for opening | 10% | 290 | SF | sell for reuse, or on-site reuse | varies | Possible LBP |

Notes:

- ¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible.
Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.
- ² Metal values are based on \$5.00 per 100 lbs of metal
Bricks are estimated based on \$0.25 per brick if cleaned and palletized

LBP Lead-based paint
SF Square feet
ft Linear feet
ea Each

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 5

| Item No. | Building Material | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|-----------------------------------|----------------------------|--|-------------------------|-------|---|---------------------------------------|---|-------|--|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/ Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 1 | brick | foundation | 2" x 4" x 8" | 8960 | ea | Variable condition, many crumbling | 35% | 5820 | ea | Sell for salvage, onsite reuse | \$1,450 | |
| 2 | concrete | walkways | — | included in warehouse 3 | — | — | — | — | — | Disposal, on-site reuse | — | |
| 3 | lumber | wall materials | 1" x 7", widths range 9.5 to 11", average width 9.5" | 650 | BF | Painted, good condition | 10% | 580 | BF | Sell for salvage, onsite reuse | \$580 | Possible LBP |
| 4 | lumber | wall materials | 1" x 7.5", widths range 9.5 to 11", average width 9.5" | 650 | BF | Painted, good condition | 10% | 580 | BF | Sell for salvage, onsite reuse | \$580 | Possible LBP |
| 5 | lumber | wall materials | 2" x 4" actual | 680 | BF | Painted, good condition | 10% | 610 | BF | Sell for salvage, onsite reuse | \$610 | Possible LBP |
| 6 | lumber | wall materials | 4" x 4" actual | 120 | BF | Painted, good condition | 10% | 100 | BF | Sell for salvage, onsite reuse | \$150 | Possible LBP |
| 7 | lumber | wall materials | 1" x 6" actual | 80 | BF | Painted, good condition | 10% | 70 | BF | Sell for salvage, onsite reuse | \$70 | Possible LBP |
| 8 | lumber | wall materials | 2" x 7", 8 to 11' lengths | 110 | BF | Unpainted, good condition | 5% | 100 | BF | Sell for salvage, onsite reuse | \$100 | |
| 9 | lumber | posts | 6" x 6", 8.5' length in center row of building, 7.5' on two outer rows | 810 | BF | Unpainted, good condition, worn, no rot | 5% | 760 | BF | Sell for salvage, onsite reuse | \$1,140 | |
| 10 | lumber | ceiling beams | 2" x 12" x 18' (average) range of 16 to 20' | 6000 | BF | Unpainted, good condition | 5% | 5700 | BF | Sell for salvage, onsite reuse | \$5,700 | |
| 11 | lumber | ceiling materials | 2" x 12", visible lengths are 16' | 1070 | BF | Unpainted, good condition | 5% | 1010 | BF | Sell for salvage, onsite reuse | \$1,000 | |
| 12 | lumber | ceiling materials | 1" x 8" no visible lengths | 530 | BF | Unpainted, good condition | 5% | 500 | BF | Sell for salvage, onsite reuse | \$500 | |
| 13 | lumber | floor materials | 1" x 8" x 8 to 16' lengths | 8000 | BF | Unpainted, good condition | 10% | 7200 | BF | Sell for salvage, onsite reuse | \$7,200 | |
| 14 | lumber | floor materials | 1" x 4", no visible lengths | 2220 | BF | Visible portions show 10% damaged | 10% | 1990 | BF | Sell for salvage, onsite reuse | \$2,000 | |
| 15 | metal | door | 6' x 6" hollow (0.25" each plate) | 70 | SF | Good condition | — | 1 | SF | Sell for scrap metal value, onsite reuse | \$40 | |
| 16 | metal | flourescent light fixtures | fixtures fitting 2, 4' bulbs | 50 | ea | Mostly damaged | — | 50 | ea | Sell for scrap metal value | \$25 | |
| 17 | metal - cast iron | sprinkler system pipes | 1" diameter | 1140 | ft | Painted, mostly good condition | — | 1140 | ft | Sell for scrap metal value | \$65 | Possible LBP |
| 18 | metal - cast iron | sprinkler system pipes | 2" diameter | 70 | ft | Painted, mostly good condition | — | 70 | ft | Sell for scrap metal value | \$10 | Possible LBP |
| 19 | metal - cast iron | sprinkler system pipes | 3.5" diameter | 10 | ft | Painted, mostly good condition | — | 10 | ft | Sell for scrap metal value | \$10 | Possible LBP |
| 20 | metal - cast iron | sprinkler system pipes | 7" diameter | 10 | ft | Painted, mostly good condition | — | 10 | ft | Sell for scrap metal value | \$20 | Possible LBP |
| 21 | metal - cast iron | sprinkler system pipes | 3.5" diameter | 30 | ft | Painted, mostly good condition | — | 30 | ft | Sell for scrap metal value | \$20 | Possible LBP |
| 22 | metal - diamond plate steel sheet | floor materials | 4' x 8' x 0.25", 26 sheets, as many as 78 beneath stored materials. used average | 1000 | SF | Unpainted, good condition | 10% | 900 | SF | Sell for scrap metal value | \$400 | |

Deconstruction Inventory
Langdale Mill, Valley, AL
Warehouse No. 5

| Item No. | Building Material | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² | Regulatory Considerations |
|----------|--|-------------------------|--------------------------|--------------------|-------|---|---------------------------------------|---|-------|--|------------------------------|---------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | | |
| 23 | metal - galv. steel | electrical conduit pipe | 1" diameter | 1300 | ft | Unpainted, mostly good condition | — | 1300 | ft | Sell for scrap metal value | \$40 | |
| 24 | metal - galv. steel | electrical conduit pipe | 2" diameter | 100 | ft | Unpainted, mostly good condition | — | 100 | ft | Sell for scrap metal value | \$10 | |
| 25 | metal wire coil inserts | mill materials | 31.4' x 3/16" -2000 ea | 62800 | ft | Cotton barrel wire coil inserts | 5% | 59660 | ft | Sell for reuse, sell for scrap metal value | \$280 | |
| 26 | other | flourescent light bulbs | 4' | 210 | ea | Used | — | 210 | ea | Disposal | — | Universal Waste |
| 27 | other - cotton barrels | mill materials | 15" diameter 36" tall | 2500 | ea | many have wire coils | 5% | 2370 | ea | Sell for reuse, disposal | — | |
| 28 | other - pressed tin, brick shape pattern | exterior wall siding | panels in various shapes | 1440 | SF | Painted, mostly good condition. Minus doorway space | 10% | 1290 | SF | Sell for reuse, onsite reuse | Varies | Possible LBP |

Notes:

- ¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible.
Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.
- ² Metal values are based on \$5.00 per 100 lbs of metal
Bricks are estimated based on \$0.25 per brick if cleaned and palletized

LBP Lead-based paint

BF Board feet

SF Square feet

ft Linear feet

ea Each

Deconstruction Inventory
Langdale Mill, Valley, AL
Compressor and Fuel Oil Storage Tank Areas

| Item No. | Building Material | | | Quantity | Reuse, Salvage, Disposal Options | | | Potential Value ² | Regulatory Considerations ³ |
|----------|-------------------|------------------|---|----------|----------------------------------|-----------------------|---|------------------------------|--|
| | Material | Elements | Dimensions | | Quantity (each) | Description/Condition | Estimated Percent Damage ¹ | | |
| 1 | metal | tank* #4 | 12.7' circumference, 11' height, 0.5" thickness | 1 | Compressed gas tank | — | Sell for scrap metal value, on-site reuse | \$170 | Decontaminate as necessary |
| 2 | metal | tank* #5 | 12.7' circumference, 11' height, 0.25" thickness | 1 | Compressed gas tank | — | Sell for scrap metal value, on-site reuse | \$85 | Decontaminate as necessary |
| 3 | metal | tank* #1 | 11' circumference, 9.5' height, 0.25" thickness | 1 | Compressed gas tank | — | Sell for scrap metal value, on-site reuse | \$65 | Decontaminate as necessary |
| 4 | metal | tank* #6 | 12.7' circumference, 12.5' height, 0.5" thickness | 1 | Compressed gas tank | — | Sell for scrap metal value, on-site reuse | \$190 | Decontaminate as necessary |
| 5 | metal | tank* #2 | 11' circumference, 9' height, 0.5" thickness | 1 | Compressed gas tank | — | Sell for scrap metal value, on-site reuse | \$120 | Decontaminate as necessary |
| 6 | metal | tank* #3 | 8' circumference, 6.5' height, 0.25" thickness | 1 | Compressed gas tank | — | Sell for scrap metal value, on-site reuse | \$30 | Decontaminate as necessary |
| 7 | metal | storage tank* #1 | 15000 gal, 31' length | 1 | Empty #6 fuel oil AST | — | Sell for scrap metal value, on-site reuse | \$1,020 | Decontaminate as necessary |
| 8 | metal | storage tank* #2 | 15000 gal, 31' length | 1 | Empty #6 fuel oil AST | — | Sell for scrap metal value, on-site reuse | \$1,020 | Decontaminate as necessary |

Notes:

- ¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible. Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.
- ² Metal values are based on \$5.00 per 100 lbs of metal. Bricks are estimated based on \$0.25 per brick if cleaned and palletized.
- ³ Follow applicable ADEM regulations for decontaminating tanks prior to reuse.

Deconstruction Inventory
Langdale Mill, Valley AL
Farmer's Market Area

| Item No. | Building Material | | | Quantity | | Reuse, Salvage, Disposal Options | | | | | Potential Value ² |
|----------|-----------------------------|-------------------------|----------------|--------------------|-------|---|---------------------------------------|---|-------|---|------------------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Estimated Percent Damage ¹ | Estimated Quantity for reuse or salvage | Units | Options | |
| 1 | lumber | wall studs | 2" x 4" x 10' | 1340 | BF | relatively new and mostly in good shape | 5% | 1270 | BF | Sell for salvage, on-site reuse | \$1,270 |
| 2 | lumber | loose | 2" x 9" x ~20' | 30 | BF | two boards | 0% | 30 | BF | Sell for salvage, on-site reuse | \$30 |
| 3 | metal - corrugated sheeting | exterior wall materials | 200' x 10' | 2000 | SF | relatively new and mostly in good shape | 5% | 1900 | SF | Sell for scrap metal value, on-site reuse | \$420 |
| 4 | metal flashing | exterior wall materials | 10" wide | 140 | SF | relatively new and mostly in good shape | 5% | 130 | SF | Sell for scrap metal value, on-site reuse | \$70 |
| 5 | metal channel beam | door frame | 6.5" x 10' | 1 | ea | good | — | 1 | ea | Sell for scrap metal value | \$10 |
| 6 | metal channel beam | door frame | 6.5" x 8' | 2 | ea | good | — | 2 | ea | Sell for scrap metal value | \$10 |

Notes:

- ¹ "Estimated Percent Damage" provided for salvagable materials (lumber, brick, etc.) only. Based on field observations where possible. Lumber value was estimated by an average of \$1.00 per board foot for anything less than 2x boards and \$1.50 per board foot for anything over 2x boards.
 - ² Metal values are based on \$5.00 per 100 lbs of metal
Bricks are estimated based on \$0.25 per brick if cleaned and palletized
- BF Board feet
SF Square feet
ea Each

Deconstruction Inventory
Langdale Mill, Valley, AL
Rooftop Air Handling Unit on Top of Weave Room No. 2

| Item No. | Building Material | | | Quantity | | Reuse, Salvage, Disposal Options | | Potential Value* |
|----------|----------------------|----------------------------|---|--------------------|-------|---|--|------------------|
| | Material | Elements | Dimensions | Estimated Quantity | Units | Description/Condition | Options | |
| 1 | metal | air handling units | 150" x 50' | 2 | ea | good | Sell for scrap metal value, sell for reuse | — |
| 2 | metal | walkway grate | 325' x 5' x 9", 1625 sqft @ 5lbs/sqft | 1630 | SF | metal walkway | Sell for scrap metal value, on-site reuse | \$400 |
| 3 | metal | hand rail segments | 2" diameter x 4' x 7'. 1/8 in thickness | 1100 | ft | hollow pipes | Sell for scrap metal value, onsite reuse | \$200 |
| 4 | metal | walkway support posts | 3" x 3" x 5' | 30 | ea | supports elevated walkway | Sell for scrap metal value, sell for reuse | \$50 |
| 5 | metal | walkway support posts | 4" x 4" x 5' | 30 | ea | supports elevated walkway | Sell for scrap metal value, sell for reuse | \$50 |
| 6 | metal | walkway hand rail L braces | 8" wide, 4' long | 70 | ea | supports the posts of the hand rails | Sell for scrap metal value | \$100 |
| 7 | metal | various supports | various sizes | — | — | — | Sell for scrap metal value | — |
| 8 | metal - carbon steel | I - beams | 25 ft of 6W | 120 | ft | walkway support | Sell for scrap metal value, sell for reuse | \$20 |
| 9 | metal - carbon steel | I - beams | 17 ft of 12W (16 pieces) | 2800 | ft | walkway support | Sell for scrap metal value, sell for reuse | \$963 |
| 10 | metal - carbon steel | I - beams | 275' of 12W (2 pieces) | 550 | ft | walkway support | Sell for scrap metal value, sell for reuse | \$490 |
| 11 | metal - carbon steel | I - beams | 12.5' of 12W (12 pieces) | 150 | ft | walkway support | Sell for scrap metal value, sell for reuse | \$263 |
| 12 | metal - carbon steel | I - beams | 230 ft of 14W | 230 ft | ft | walkway support | Sell for scrap metal value, sell for reuse | \$500 |
| 13 | metal - carbon steel | I - beams | 25 ft of 4W | 330 | ft | walkway support | Sell for scrap metal value, sell for reuse | \$90 |
| 14 | metal - cast iron | pipes | 4" diameter, 205' | 210 | ft | not insulated | Sell for scrap metal value | \$150 |
| 15 | metal - cast iron | pipes | 4.5" diameter, 255' | 300 | ft | not insulated | Sell for scrap metal value | \$210 |
| 16 | metal - cast iron | pipes | 3" diameter, 20' | 20 | ft | not insulated | Sell for scrap metal value | \$10 |
| 17 | metal - cast iron | pipes | 3.5" diameter, 280' | 280 | ft | Insulated, insulation generally styrofoam | Sell for scrap metal value | \$170 |
| 18 | metal - cast iron | pipes | 6.5" diameter, 260' | 200 | ft | Insulated, insulation generally styrofoam | Sell for scrap metal value | \$250 |
| 19 | metal - cast iron | pipes | 9" diameter, 205' | 200 | ft | Insulated, insulation generally styrofoam | Sell for scrap metal value | \$500 |
| 20 | metal - cast iron | pipes | 3.5" diameter, 275' | 280 | ft | Insulated, insulation generally styrofoam | Sell for scrap metal value | \$170 |
| 21 | metal - cast iron | pipes | 4" diameter, 245' | 250 | ft | Insulated, insulation generally styrofoam | Sell for scrap metal value | \$185 |
| 22 | metal - galv. steel | conduit | 1" diameter | 280 | ft | electrical conduit | Sell for scrap metal value | \$10 |
| 23 | metal | 50 Gal. hot water heater | 50 gals | 1 | ea | unknown | Sell for scrap metal value | \$10 |

Notes:

Lumber value was estimated by an average of \$1.00

* Metal values are based on \$5.00 per 100 lbs of
Bricks are estimated based on \$0.25 per brick if

SF Square Feet
ft Feet
ea Each

**ATTACHMENT C
PHOTOGRAPHIC LOG**



Photograph No. 1: Rooftop air handling units and associated steel support structure above Weave Room No. 2.



Photograph No. 2: Possible asbestos containing material (ACM) shingles on exterior of Warehouse No. 1.



Photograph No. 3: Typical metal shelving unit in Warehouse No. 4.



Photograph No. 4: Pressed metal, faux brick fascia on wall of Warehouse No. 4.



Photograph No. 5: Typical sliding track, wooden doors with pressed metal finish in Warehouse No. 5.



Photograph No. 6: Compressor tanks.



Photograph No. 7: Fuel oil storage tanks.



Photograph No. 8: Sprinkler system inspector test plate.



Photograph No. 9: Metal walkway grating and associated handrails of the rooftop air handling unit above Weave Room No. 2.



Photograph No. 10: Fiberglass/fiberboard storage containers with metal coils in Warehouse No. 5.

ATTACHMENT D

INVENTORY QUANTITY CALCULATION TOOLS AND RESOURCES

In addition to field measurements and observations, the following on-line and other resources were used to calculate quantities of materials for the deconstruction inventory:

Piping and Other Metal

American Institute of Steel Construction, Inc. 2007. *Steel Construction Manual*. Thirteenth Edition

Cast Iron Pipe Weight Standards

<http://www.gizmology.net/pipe.htm>

Electrical Conduit Weight Standards

<http://www.steelconduit.com/docs/EMTspecs.pdf>

Metal Weights Calculator

<http://www.bostoncenterless.com/weightcalc.htm>

<http://www.steelforge.com/steelweights.htm>

Saginaw Pipe: Steel Reference Handbook

<http://www.saginawpipe.com/Sheets.pdf>

<http://www.saginawpipe.com/Plates.pdf>

Brick

http://www.mc2-ice.com/support/estref/popular_conversion_files/masonry/brick.htm