

**BOARD OF COMMISSIONERS OF THE PORT OF NEW  
ORLEANS**

**NEW ORLEANS, LOUISIANA**

**ASBESTOS DAMAGE ASSESSMENT  
MECHANICAL EQUIPMENT CO. INC.  
(MECO)**

**3855 FRANCE ROAD  
NEW ORLEANS, LOUISIANA**

**APRIL 2008**

**PREPARED BY:**

**UNITED STATES RISK MANAGEMENT, L.L.C.  
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NEW ORLEANS, LOUISIANA 70130  
(504) 561-6563**

**PROJECT NUMBER 15070146**

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## 1.0 INTRODUCTION

U.S. Risk Management, L.L.C. (USRM) was retained by the Board of Commissioners of the Port of New Orleans (Port) in New Orleans, Louisiana to perform an Asbestos Damage Assessment at the Port's Mechanical Equipment Co Inc (MECO) facility damaged by Hurricane Katrina. USRM performed an asbestos inspection in the completion of the original project scope of each structure including collecting samples of suspect asbestos containing building materials for all structures of the MECO Facility. The MECO facility consists of five buildings between the Inner Harbor Navigation Canal and France Road.

The inspection occurred on February 14, 2008 by two industrial hygienists who are also Accredited Louisiana Department of Environmental Quality (LDEQ) Asbestos Inspectors, James Laws and Jeffrey Chimento, LADEQ Inspector #8S01929 and #8I01420, respectively. The work was performed in accordance with United States Environmental Protection Agency (EPA) 40 CFR 61 Subparts A and M and 40 CFR 745 Subpart F and Louisiana Department of Environmental Quality (LDEQ) LAC 33: Part III Chapter 27 guidelines. The asbestos samples were sent to EMSL Analytical, Inc. (EMSL), accreditation #102344, Carle Place, New York for Polarized Light Microscopy (PLM) analysis.

## 2.0 OBSERVATIONS

USRM performed an asbestos damage assessment site inspection at the MECO facility. The MECO facility consists of five buildings including a two-story office as Building 1, a warehouse with a second floor office and storage shed as Building 2, a warehouse with a two-story office as Building 3, a warehouse with a compressor room and separate bathroom as Building 4, and a garage as Building 5. The property in which the buildings are located spans between France Road and the Inner Harbor Navigation Canal. It is uncertain at this time whether the MECO facility will be renovated or demolished. Structural damages were sustained to the facility as a result of Hurricane Katrina in August 2005, as well as further damage which has occurred as a result of water infiltration through openings in the structure. Worksheets detailing the observations are attached in **Appendix A** and photographs are attached in **Appendix B**. The observations are as follows:

### 2.1. Building 1 (Office)

Building 1 is a two-story building of approximately 1,800 square feet per floor. The exterior of the building is constructed of a sheet metal roof with brick walls.

#### First Floor

- The first floor has white, gray and yellow 12x12 vinyl floor tile with yellow and black mastic. All 12x12 vinyl floor tile and mastic were observed to be in poor condition, as evident by cracked, brittle and missing floor tile due to water damage.
- The interior walls have been gutted with wood studs still in place.
- Drop ceiling tile and drywall comprise the ceiling. Drywall and drop ceiling tile are in poor condition, as evident by water stains, fungal growth and missing drop ceiling tile and drywall due to water damage.

### Second Floor

- The second floor has tan 12x12 vinyl floor tile and carpet over wood floors. The vinyl floor tile was categorized as intact and also as in fair condition.
- Walls are constructed of drywall in poor condition, as evident through water stains, fungal growth and peeling drywall due to water damage.
- The ceiling consists of drop ceiling tile and drywall. Drywall and drop ceiling tile are in poor condition, as evident through water stains, fungal growth, and missing drop ceiling tile due to water damage.

## **2.2. Building 2 (Warehouse, Office Space and Storage Shed)**

Building 2 is an open warehouse of approximately 14,000 square feet with an interior second-story office space of approximately 400 square feet and storage shed of approximately 700 square feet. The warehouse is constructed of steel beams, a sheet metal roof with fiberglass skylights and insulation, sheet metal walls with sliding metal doors, and a concrete floor. Approximately 600 square feet of sheet metal along the east wall of the warehouse is missing.

### Office Space

- The exterior is comprised of a sheet metal roof and sheet metal walls with glass windows positioned on steel beams.
- The floor has linoleum in fair condition.
- Walls are constructed of wood panels in good condition.
- The ceiling is constructed of drywall in good condition.

### Storage Shed

- The storage shed is comprised of sheet metal walls situated on the concrete floor of the warehouse with no ceiling.
- Two of the four walls are covered with pegboard in good condition.

## **2.3. Building 3 (Warehouse and Two-Story Office)**

Building 3 is a warehouse divided into two sections of approximately 15,000 square feet on the north warehouse and 9,600 square feet on the south warehouse. The north warehouse contains an interior two-story structure with an approximate 500 square foot bathroom on the first floor and an approximate 400 square foot office space on the second floor. Both north and south warehouses are constructed of steel beams, a sheet metal roof in good condition with fiberglass skylights, and fiberglass insulation in fair condition. Walls were constructed of sheet metal walls with two sliding metal doors on both the north and south warehouse and fiberglass batting on the east and south walls of both north and south warehouse. The floor of the north and south warehouse is constructed of concrete. The northwest corner of the north warehouse contains a paint room with an approximate 500 square foot of paint filters attached to the walls, which is in poor condition from non-storm related damage. A compressor is located on an elevated skid in the southeast corner of the north warehouse.

#### Bathrooms

- The floor of the bathroom is constructed of concrete.
- The walls are constructed of cinder block.
- The ceiling is constructed of cinder block.

#### Second Floor Office

- The floor has gray 12x12 vinyl floor tile in poor condition, as evident through cracked, brittle and missing 12x12 vinyl floor tile due to water damage.
- Walls are constructed of wood panels both inside and outside in good condition with metal studs and glass windows.
- The ceiling is constructed of drop ceiling tile in poor condition, as evident through water stains and rusted metal drop ceiling tile grids from non-storm related water damage.

### **2.4. Building 4 (Warehouse with a Bathroom and a Compressor Room)**

Building 4 is an approximate 9,500 square foot warehouse with an approximate 700 square foot garage and bathroom. The warehouse is constructed of steel beams, a sheet metal roof with fiberglass skylights and fiberglass insulation, sheet metal walls with sliding metal doors and fiberglass batting, and concrete floors. An approximate 100 square foot of sheet metal is missing from the north wall of the warehouse. A garage with a sheet metal roof, sheet metal walls and a concrete ceiling is located off of the northwest corner of the warehouse. The compressor room is located at the southwest end of the warehouse. A bathroom is located on the north wall.

#### Compressor Room

- The floor of the compressor room is constructed of concrete.
- The walls are constructed of wood in fair condition, as evident through water stains caused by water infiltration from missing sheet metal on the west wall.
- The ceiling is constructed of drop ceiling tile in poor condition, as evident through water stains, fungal growth and missing ceiling tile due to water.

#### Bathroom

- The floor is covered with linoleum in poor condition, as evident through cracking and peeling due to water damage.
- Walls are constructed of wood in fair condition.
- The ceiling is constructed of drywall in poor condition, as evident through cracked and peeling drywall due to water damage.

### **2.5. Building 5 (Garage)**

Building 5 is an approximate 10,500 square foot building divided into individual garages. The warehouse is constructed of steel beams, a sheet metal roof with and foil and fiberglass insulated ceiling, sheet metal walls with foil and fiberglass insulation and sliding metal doors, and concrete floors. Ceilings are in poor condition, as evident through fallen insulation. Walls are in poor condition, as

evident through the interior sheet metal and fiberglass batting having fallen from the studs attached to the exterior sheet metal.

### **3.0 ASBESTOS SAMPLE COLLECTION AND RESULTS**

Asbestos samples were collected from 12x12 vinyl floor tile and mastic, linoleum flooring and mastic, baseboards, thermal system insulation (TSI) HVAC wrap, TSI pipe wrap, paint filters, drywall, drop ceiling tile, and drywall ceiling from the MECO facility. A total of fifteen (15) asbestos samples were collected, placed in labeled Ziplock™ bags and sent to EMSL in Carle Place, New York for analysis.

Of the fifteen (15) asbestos samples collected, four samples were considered asbestos containing material (ACM). See **Appendix C** for laboratory analytical results and chain-of-custody and **Appendix D** for the asbestos summary.

### **4.0 CONCLUSIONS**

USRM performed an asbestos damage assessment at the MECO facility for the Port of New Orleans located in New Orleans, Louisiana. The analytical results of the asbestos inspection indicated asbestos was present in the gray 12x12 vinyl floor tile, mastic and thermal system insulation (TSI) pipe wrap of the first floor of Building 1, and in the tan and gray 12x12 vinyl floor tile of the second floor of Building 1. Floor tile in poor condition is considered friable and therefore regulated by the Louisiana Department of Environmental Quality (LDEQ). Floor tile in good condition is considered non-regulated by the LDEQ. However, due to the fact that water continues to infiltrate the building envelope, deterioration of the non-friable floor tile will occur. This would result in the floor tile becoming brittle and, therefore, friable and regulated. For this purpose, USRM has included the abatement of all asbestos containing floor tiles in the cost estimate.

### **5.0 RECOMMENDATIONS**

USRM recommends the following actions for MECO regarding asbestos abatement:

#### **5.1. Property Renovation**

Friable 12x12 vinyl floor tile is regulated by the Louisiana Department of Environmental Quality (LDEQ), and must be removed by an asbestos abatement contractor in accordance with LDEQ guidelines for asbestos LAC III Chapter 51. The mastic may be left in place. Non-friable 12x12 vinyl floor tile is currently not regulated by LDEQ and may be left in place if not made friable.

Thermal System Insulation (TSI) is regulated by LDEQ, and must be removed by an asbestos abatement contractor in accordance with LDEQ guidelines for asbestos LAC III Chapter 51.

## 5.2. Property Demolition with Slab Recycling

Friable 12x12 vinyl floor tile is regulated by the Louisiana Department of Environmental Quality (LDEQ), and must be removed by an asbestos abatement contractor in accordance with LDEQ guidelines for asbestos LAC III Chapter 51. Non-friable 12x12 vinyl floor tile is currently not regulated by LDEQ and may be left in place. However, if the property is to be demolished with the slab being recycled, the 12x12 vinyl floor tile must be removed and the mastic must be abated by an accredited asbestos abatement contractor in accordance with LDEQ guidelines for asbestos LAC III Chapter 51 before demolition.

Thermal System Insulation (TSI) is regulated by LDEQ, and must be removed by an asbestos abatement contractor in accordance with LDEQ guidelines for asbestos LAC III Chapter 51.

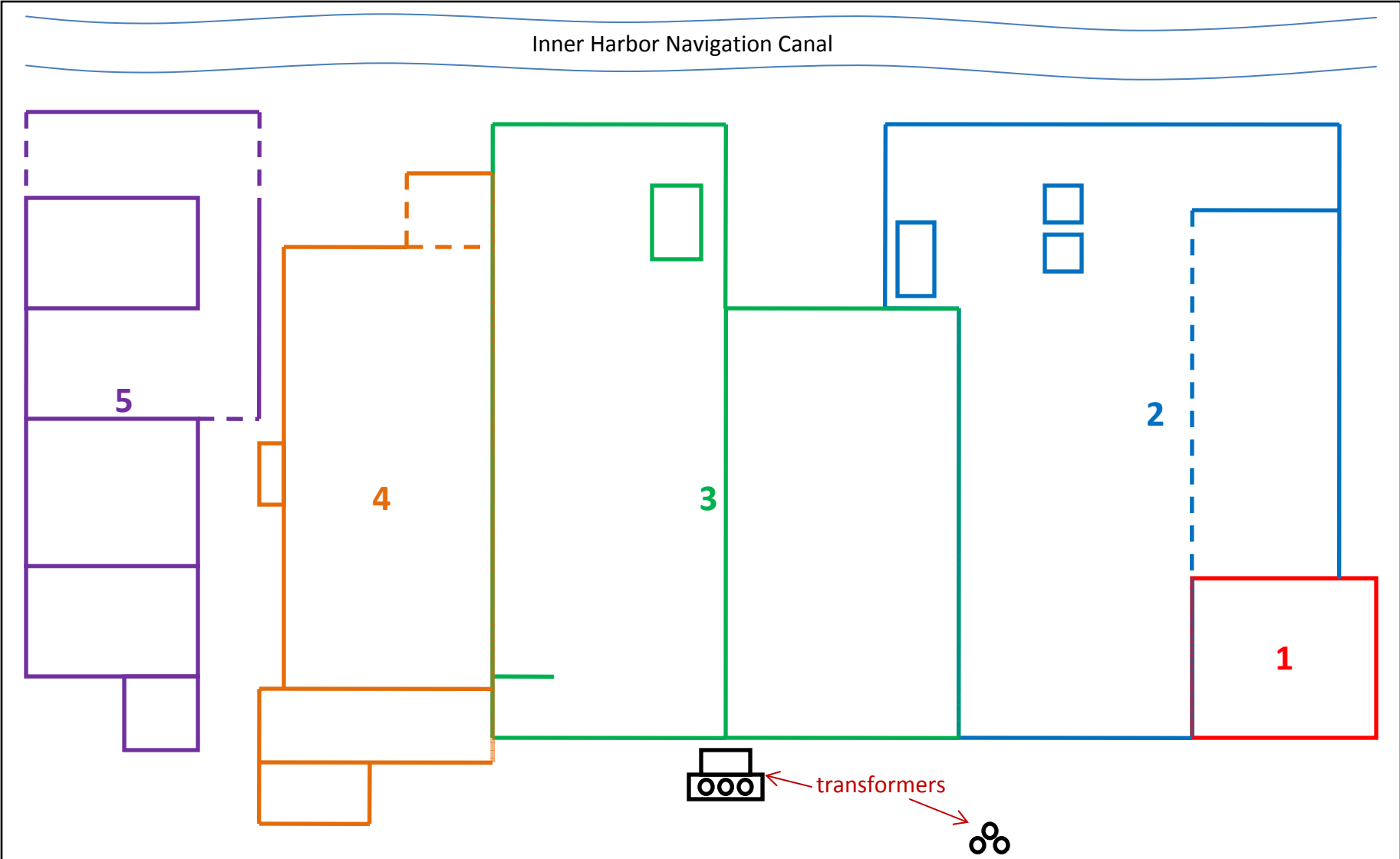
## 5.3. Cost Estimate

A cost estimate is included and is based on the abatement of floor tile and mastic and transite panels of the building. In order to prevent asbestos fibers from becoming airborne, it is recommended to lock down any fibers with an encapsulant after the removal process has been completed. An abatement cost estimate is attached as **Appendix E**, in addition to an asbestos summary attached as **Appendix D**.

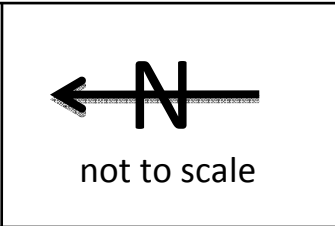
## **APPENDICES**

**APPENDIX A**

**WORKSHEETS**

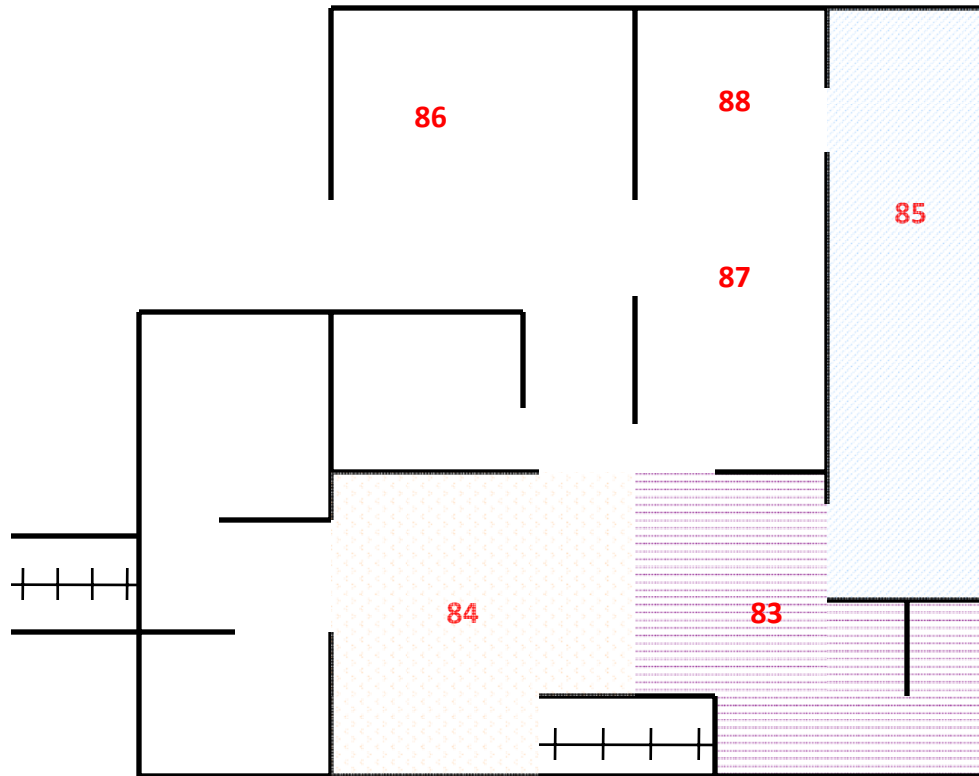


Mechanical Equipment Co.  
 Site Plan  
 Orleans Parish, Louisiana



date  
 2-14-08  
 designed  
 J Chimento  
 project no  
 15-070146

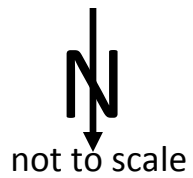




red numbers  
indicate sample  
locations

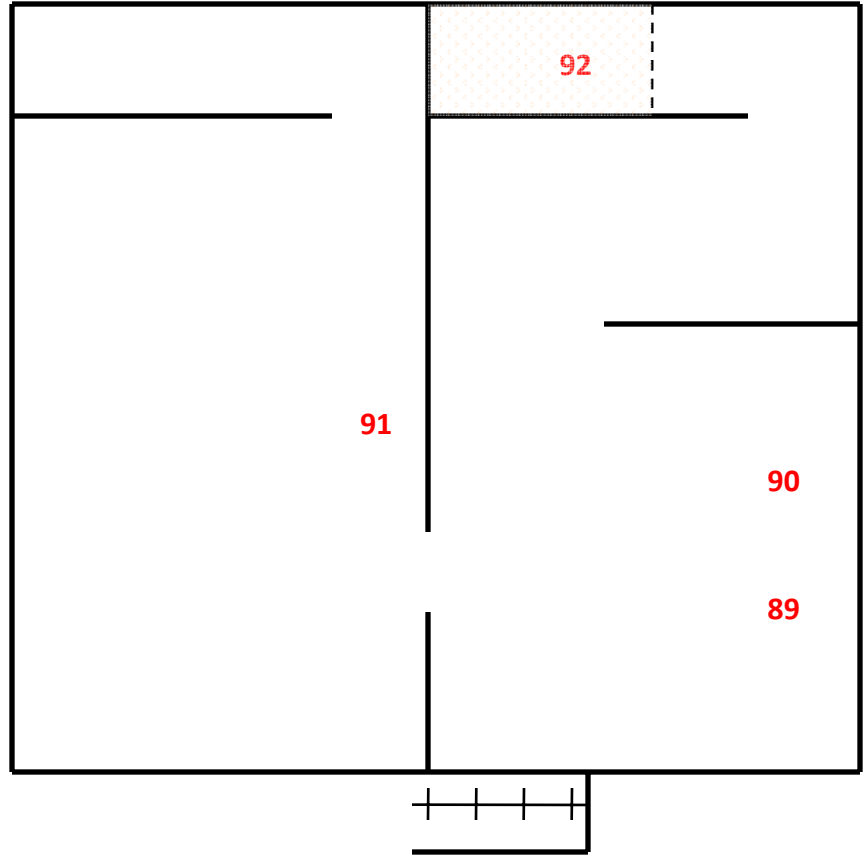
White Tile	Yellow Tile	Gray Tile
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Mechanical Equipment Co.  
Building 1 First Floor  
Site Plan  
Orleans Parish, Louisiana



date	2-14-08
designed	J Chimento
project no	15-070146






red numbers  
indicate sample  
locations

Tan / Gray  
Tile

Mechanical Equipment Co.  
Building 1 Second Floor  
Site Plan  
Orleans Parish, Louisiana

  
 not to scale

date	2-14-08
designed	J Chimento
project no	15-070146









Project # 15-070146 Accreditation Number 8101420 / 8100922  
 Project Name Port of New Orleans Date 2/14/2008  
 Inspector JC / JL Page 1 of 1

Location MELO  
 Building 2  
 Room

SAMPLING INFORMATION									TYPES OF ASBESTOS (Code)
Sample ID#	Homogenous Area #	Color	Quantity (sq.ft. or lin.ft.)**	Type of ACM (use Code)	Friability (yes/no)	Physical Condition (poor, fair, intact)	Potential for Disturbance	Results (% ACM)	
93	same	yell	400 sq	lin	NO	poor		0	<b>Roofing and Siding -Category II Non-Friable</b> -Roofing felt (rf) -Roofing shingles,transite (rs/tr) -Roofing tiles (rt) -Siding Shingles (ss) -Clapboards (cb) {capture photo} -in air plenum (ap) -fire door (fd) -chalkboards (chb) -transite panels (trpl)
93		yell	↓	M	↓	↓		0	
ARROW									<b>Walls and Ceilings - Friable</b> -Sprayed coating (sc) -Troweled coating (tc) -Cement Sheet (near fireplaces) (cs) -Joint Compounds (jc) -Textured paint (tp) -Millboard, rollboard, or wallboard (mb, rb, wb) -Vinyl wallpaper (vwp) -Insulation board (ib) -Drop ceiling tiles (dct)
DIAGRAM									<b>Floors - Category I Non-Friable</b> -Vinyl tile/mastic (vt/m-12x12) -Vinyl tile/mastic (vt/m-9x9) -Asphalt tile/mastic (at/m) -Resilient sheet flooring/mastic (rf/m) -Linoleum/mastic (lin/m)
									<b>Pipes and Boilers - Friable</b> -Fire proofing (fp) -Cement pipe and fittings (cp or f) -Block insulation (bi) -Pipe wrap (pw) -Corrugated paper (cgp) -Paper tape (pt) -Putty (p) -Elbows (e) -Joints (j) -Wire insulation (wi)
OBSERVATIONS									Caulking (clk) - Category I -Other (o)
Were all areas accessible for sampling? If not, detail.									<b>**Perform second site visit upon receipt of results. Unless requested to do otherwise by client/scope of work.</b>
metal roof w/ fiberglass skylights + insulated cig, metal walls, concrete floor									
Upstairs offices have metal exterior, undamaged dw cig, panel walls + linoleum floor.									
Damaged lin unlikely due to any storm or rainfall event.									



Project # 15-070146 Accreditation Number 8101420 / 8100922  
 Project Name Port of New Orleans Date 2/14/2008  
 Inspector JC / JL Page 1 of 1

Location MECO  
 Building 3  
 Room \_\_\_\_\_

SAMPLING INFORMATION								TYPES OF ASBESTOS (Code)
Sample ID#	Homogenous Area #	Color	Quantity (sq.ft. or lin.ft.)**	Type of ACM (use Code)	Friability (yes/no)	Physical Condition (poor, fair, intact)	Potential for Disturbance	Results (% ACM)
94		silver/bl	15 lin	pw	yes	Poor		0
95		bl/gr	500 sq	0-paint filter	yes	Poor		0
96		gr/silv/yell	75 lin	pw	Y	P		0
97		gray	20 lin	pw	Y	P		0
98	Upstairs office	gray	300 sq	VT-12x12	N	P		0
98		brown	↓	M	N	P		<1 - Chrysotile
99		whit	300 sq	DCT	Y	P		0
ARROW DIAGRAM								
↓								
OBSERVATIONS								
Were all areas accessible for sampling? If not, detail.								
<p>Metal roof w/ fiberglass skylights + insulated cig, metal walls + concrete floor          Downstairs restrooms are CB + cm, upstairs office has wood ext, DCT,          panel walls, + 12x12 vt</p> <p>Damaged substrates are unutilized, due to a storm or rainfall event. Roof damage          was not visible at the time of inspection.</p>								

- Roofing and Siding -Category II Non-Friable**
- Roofing felt (rf)
  - Roofing shingles,transite (rs/tr)
  - Roofing tiles (rt)
  - Siding Shingles (ss)
  - Clapboards (cb) {capture photo}
  - in air plenum (ap)
  - fire door (fd)
  - chalkboards (chb)
  - transite panels (trpl)
- Walls and Ceilings - Friable**
- Sprayed coating (sc)
  - Troweled coating (tc)
  - Cement Sheet (near fireplaces) (cs)
  - Joint Compounds (jc)
  - Textured paint (tp)
  - Millboard, rollboard, or wallboard (mb, rb, wb)
  - Vinyl wallpaper (vwp)
  - Insulation board (ib)
  - Drop ceiling tiles (dct)
- Floors - Category I Non-Friable**
- Vinyl tile/mastic (vt/m-12x12)
  - Vinyl tile/mastic (vt/m-9x9)
  - Asphalt tile/mastic (at/m)
  - Resilient sheet flooring/mastic (rf/m)
  - Linoleum/mastic (lin/m)
- Pipes and Boilers - Friable**
- Fire proofing (fp)
  - Cement pipe and fittings (cp or f)
  - Block insulation (bi)
  - Pipe wrap (pw)
  - Corrugated paper (cgp)
  - Paper tape (pt)
  - Putty (p)
  - Elbows (e)
  - Joints (j)
  - Wire insulation (wi)
  - Caulking (clk) - Category I
  - Other (o)

**\*\*Perform second site visit upon receipt of results. Unless requested to do otherwise by client/scope of work.**





**APPENDIX B**

**PHOTOGRAPHS**



Photograph No. 001: overall facility



Photograph No. 004: inside downstairs of bldg 1



Photograph No. 002: west side of bldg 1



Photograph No. 005: inside downstairs of bldg 1



Photograph No. 003: south side of bldg 1



Photograph No. 006: inside downstairs of bldg 1



Photograph No. 007: inside downstairs of bldg 1



Photograph No. 010: inside downstairs of bldg 1



Photograph No. 008: inside downstairs of bldg 1



Photograph No. 011: inside upstairs of bldg 1



Photograph No. 009: inside downstairs of bldg 1



Photograph No. 012: inside upstairs of bldg 1



Photograph No. 013: inside upstairs of bldg 1



Photograph No. 016: inside of bldg 2



Photograph No. 014: inside upstairs of bldg 1



Photograph No. 017: inside of bldg 2



Photograph No. 015: west side of bldg 2



Photograph No. 018: inside of bldg 2



Photograph No. 019: inside of bldg 2



Photograph No. 022: inside upstairs offices of bldg 2



Photograph No. 020: inside of bldg 2



Photograph No. 023: inside upstairs offices of bldg 2



Photograph No. 021: inside of bldg 2



Photograph No. 024: inside upstairs offices of bldg 2



Photograph No. 025: inside upstairs offices of bldg 2



Photograph No. 028: inside of bldg 2



Photograph No. 026: inside of bldg 2



Photograph No. 029: inside storage shed of bldg 2



Photograph No. 027: inside of bldg 2



Photograph No. 030: inside storage shed of bldg 2



Photograph No. 031: west side of bldg 3



Photograph No. 034: inside of bldg 3



Photograph No. 032: west side of bldg 3



Photograph No. 035: inside of bldg 3



Photograph No. 033: inside of bldg 3



Photograph No. 036: inside of bldg 3



Photograph No. 037: inside of bldg 3



Photograph No. 040: inside of bldg 3



Photograph No. 038: inside of bldg 3



Photograph No. 041: inside of bldg 3



Photograph No. 039: inside of bldg 3



Photograph No. 042: inside of bldg 3



Photograph No. 043: inside of bldg 3



Photograph No. 046: inside upstairs office of bldg 3



Photograph No. 044: inside of bldg 3



Photograph No. 047: inside upstairs office of bldg 3



Photograph No. 045: inside of bldg 3



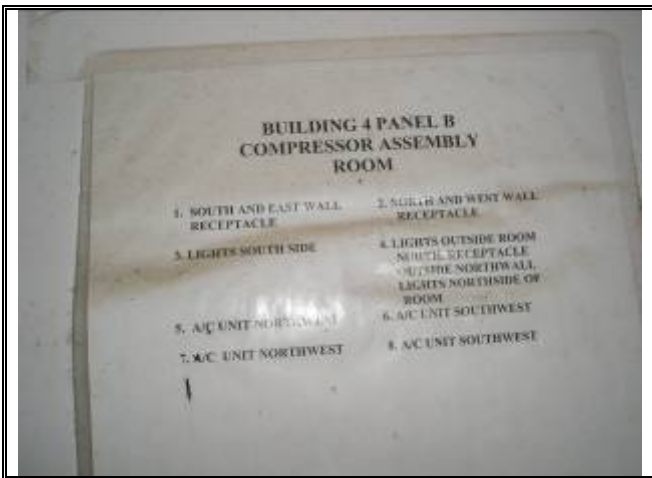
Photograph No. 048: west side of bldg 4



Photograph No. 049: west side of bldg 4



Photograph No. 052: inside of bldg 4



Photograph No. 050: inside compressor room of bldg 4



Photograph No. 053: inside of bldg 4



Photograph No. 051: inside compressor room of bldg 4



Photograph No. 054: inside of bldg 4



Photograph No. 055: inside of bldg 4



Photograph No. 058: west side of bldg 5



Photograph No. 056: inside bathroom of bldg 4



Photograph No. 059: north side of bldg 5



Photograph No. 057: inside bathroom of bldg 4



Photograph No. 060: south side of bldg 5



Photograph No. 061: inside of bldg 5



Photograph No. 064: inside of bldg 5



Photograph No. 062: inside of bldg 5



Photograph No. 065: inside of bldg 5



Photograph No. 063: inside of bldg 5



Photograph No. 066: inside of bldg 5



Photograph No. 067: inside of bldg 5



Photograph No. 070: inside of bldg 5



Photograph No. 068: inside of bldg 5



Photograph No. 071: inside of bldg 5



Photograph No. 069: inside of bldg 5



Photograph No. 072: inside of bldg 5



Photograph No. 073: inside of bldg 5



Photograph No. 076: transformers



Photograph No. 074: transformers



Photograph No. 077: transformers



Photograph No. 075: transformers



Photograph No. 078: transformers



Photograph No. 079: transformers



Photograph No. 082: transformers



Photograph No. 080: transformers



Photograph No. 083: transformers



Photograph No. 081: transformers

**APPENDIX C**

**LABORATORY ANALYTICAL RESULTS**



# EMSL Analytical, Inc.

208 Stone Hinge Lane, Carle Place, NY 11514

Phone: (516) 997-7251 Fax: (516) 997-7528 Email: [carleplacelab@emsl.com](mailto:carleplacelab@emsl.com)

Attn: **US Risk Management, LLC**  
**365 Canal Street Suite 2760**  
**New Orleans, LA 70130**

Customer ID: USRI72  
Customer PO:  
Received: 02/18/08 9:03 AM  
EMSL Order: 060802749  
EMSL Proj:  
Analysis Date: 2/18/2008  
Report Date: 2/19/2008

Fax: Phone: (504) 561-6563  
Project: **PNO-15070146, Meco**

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
83 VT 060802749-0001	Bldg. 1, Down, 12x12 VT & Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
83 mastic 060802749-0001A	Bldg. 1, Down, 12x12 VT & Mastic	Yellow Non-Fibrous Heterogeneous	<1% Cellulose <1% Synthetic	100% Non-fibrous (other)	None Detected
84 VT 060802749-0002	Bldg. 1, Down, 12x12 VT & Mastic	Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
84 mastic 060802749-0002A	Bldg. 1, Down, 12x12 VT & Mastic	Yellow Non-Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
85 VT 060802749-0003	Bldg. 1, Down, 12x12 VT & Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
85 mastic 060802749-0003A	Bldg. 1, Down, 12x12 VT & Mastic	Black Non-Fibrous Heterogeneous	2% Cellulose	90% Non-fibrous (other)	8% Chrysotile
86 060802749-0004	Bldg. 1, Down, HVAC Wrap	Gray Fibrous Homogeneous	40% Cellulose	20% Non-fibrous (other)	40% Chrysotile
87 060802749-0005	Bldg. 1, Down, Cig. Tile	Gray/White Fibrous Homogeneous	60% Cellulose 5% Glass	15% Non-fibrous (other) 20% Perlite	None Detected

Analyst(s) \_\_\_\_\_

Jonathan Teda (33)

Michelle McGowan, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.  
AIHA IHLAP 102344, NVLAP Lab Code 101048-10, CA ELAP 2339, CT PH-0249, NY ELAP 11469, MA AA000200, LELAP 04144



**EMSL Analytical, Inc.**

208 Stone Hinge Lane, Carle Place, NY 11514

Phone: (516) 997-7251 Fax: (516) 997-7528 Email: [carleplacelab@emsl.com](mailto:carleplacelab@emsl.com)

Attn: **US Risk Management, LLC**  
**365 Canal Street Suite 2760**  
**New Orleans, LA 70130**

Customer ID: USRI72  
Customer PO:  
Received: 02/18/08 9:03 AM  
EMSL Order: 060802749  
EMSL Proj:  
Analysis Date: 2/18/2008  
Report Date: 2/19/2008

Fax: Phone: (504) 561-6563  
Project: **PNO-15070146, Meco**

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
88 DW <i>060802749-0006</i>	Bldg. 1, Down, DW Cig.	Brown/White Fibrous Homogeneous	4% Cellulose	80% Gypsum 16% Non-fibrous (other)	<b>None Detected</b>
88 Joint comp <i>060802749-0006A</i>	Bldg. 1, Down, DW Cig.	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	<b>None Detected</b>
89 <i>060802749-0007</i>	Bldg. 1, Up, Cig. Tile	Gray/White Fibrous Homogeneous	60% Cellulose 5% Glass	15% Non-fibrous (other) 20% Perlite	<b>None Detected</b>
90 DW <i>060802749-0008</i>	Bldg. 1, Up, DW Cig.	Brown/White Fibrous Heterogeneous	8% Cellulose	75% Gypsum 17% Non-fibrous (other)	<b>None Detected</b>
90 Joint Comp <i>060802749-0008A</i>	Bldg. 1, Up, DW Cig.	White Non-Fibrous Heterogeneous	<1% Cellulose	50% Ca Carbonate 50% Non-fibrous (other)	<b>None Detected</b>
91 DW <i>060802749-0009</i>	Bldg. 1, Up, DW Wall	Brown/White Fibrous Homogeneous	5% Cellulose	80% Gypsum 15% Non-fibrous (other)	<b>None Detected</b>
91 Joint comp <i>060802749-0009A</i>	Bldg. 1, Up, DW Wall	White Non-Fibrous Heterogeneous	<1% Cellulose	60% Ca Carbonate 40% Non-fibrous (other)	<b>None Detected</b>
92 VT <i>060802749-0010</i>	Bldg. 1, Up, 12x12 VT & Mastic	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	<b>3% Chrysotile</b>

Analyst(s) \_\_\_\_\_

Jonathan Teda (33)

Michelle McGowan, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.  
AIHA IHLAP 102344, NVLAP Lab Code 101048-10, CA ELAP 2339, CT PH-0249, NY ELAP 11469, MA AA000200, LELAP 04144



**EMSL Analytical, Inc.**

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Phone: (516) 997-7251 Fax: (516) 997-7528 Email: [carleplacelab@emsl.com](mailto:carleplacelab@emsl.com)

Attn: **US Risk Management, LLC**  
**365 Canal Street Suite 2760**  
**New Orleans, LA 70130**

Customer ID: USRI72  
Customer PO:  
Received: 02/18/08 9:03 AM  
EMSL Order: 060802749  
EMSL Proj:  
Analysis Date: 2/18/2008  
Report Date: 2/19/2008

Fax: Phone: (504) 561-6563  
Project: **PNO-15070146, Meco**

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
92 Mastic 060802749-0010A	Bldg. 1, Up, 12x12 VT & Mastic	Yellow Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
93 Lino 060802749-0011	Bldg. 2, Upstairs Office, Linoleum & Mastic	Beige Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
93 Mastic 060802749-0011A	Bldg. 2, Upstairs Office, Linoleum & Mastic	Yellow Non-Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
94 060802749-0012	Bldg. 3, Pipe Wrap	Silver/Black Fibrous Heterogeneous	5% Cellulose 70% Glass	25% Non-fibrous (other)	None Detected
95 060802749-0013	Bldg. 3, Paint filter	Gray Fibrous Heterogeneous	30% Cellulose 40% Synthetic	30% Non-fibrous (other)	None Detected
96 060802749-0014	Bldg. 3, Pipe Wrap	Silver/Yellow Fibrous Homogeneous	5% Cellulose 25% Glass	70% Non-fibrous (other)	None Detected
97 060802749-0015	Bldg. 3, Pipe Wrap	Gray/Yellow Fibrous Homogeneous	5% Cellulose 30% Glass	65% Non-fibrous (other)	None Detected
98 VT 060802749-0016	Bldg. 3, Upstairs, 12x12 VT & Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) \_\_\_\_\_

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or other approved signatory

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Project: **PNO-15070146, Meco**

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
98 Mastic <i>060802749-0016A</i>	Bldg. 3, Upstairs, 12x12 VT & Mastic	Brown Non-Fibrous Heterogeneous	<1% Cellulose  Possible surface contamination	100% Non-fibrous (other)	<1% Chrysotile
99 <i>060802749-0017</i>	Bldg. 3, Upstairs, Cig Tile	Gray/White Fibrous Homogeneous	50% Cellulose 15% Glass	15% Non-fibrous (other) 20% Perlite	None Detected
100 <i>060802749-0018</i>	Bldg. 4, Compressor Rm., Cig Tile	Gray/White Fibrous Homogeneous	50% Cellulose 15% Glass	15% Non-fibrous (other) 20% Perlite	None Detected
101 Baseboard <i>060802749-0019</i>	Bldg. 4, Compressor Rm., Baseboard & Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
101 mastic <i>060802749-0019A</i>	Bldg. 4, Compressor Rm., Baseboard & Mastic	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
102 Lino <i>060802749-0020</i>	Bldg. 4, Restroom, Linoleum & Mastic	Gray/White Fibrous Homogeneous	15% Cellulose 5% Glass	80% Non-fibrous (other)	None Detected
102 mastic <i>060802749-0020A</i>	Bldg. 4, Restroom, Linoleum & Mastic	Yellow Non-Fibrous Heterogeneous	5% Cellulose <1% Glass	95% Non-fibrous (other)	None Detected

Analyst(s) \_\_\_\_\_

*Jonathan Teda (33)*

Michelle McGowan, Laboratory Manager  
or other approved signatory

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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
103 DW <i>060802749-0021</i>	Bldg. 4, Restroom, DW Cig.	Brown/Peach Fibrous Heterogeneous	8% Cellulose <1% Glass	75% Gypsum 17% Non-fibrous (other)	<b>None Detected</b>
103 Texture <i>060802749-0021A</i>	Bldg. 4, Restroom, DW Cig.	White Non-Fibrous Heterogeneous	<1% Cellulose	75% Non-fibrous (other) 25% Quartz	<b>None Detected</b>

Analyst(s) \_\_\_\_\_

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AIHA IHLAP 102344, NVLAP Lab Code 101048-10, CA ELAP 2339, CT PH-0249, NY ELAP 11469, MA AA000200, LELAP 04144



ASBESTOS

do not e-mail George

EMSL Rep: John C. Van Voorhees
Your Company Name: US Risk Management, LLC
Street: 365 Canal Street
Box #:
City/State: New Orleans, LA Zip: 70130

EMSL-Bill to: Same
Street:
Box #:
City/State: Zip:

Third Party Billing requires written authorization from third party

e-mail Results to: Name: Jeff Chimento, jchimento@us-risk.com
Telephone #: 225-572-3636
Project Name/Number: PNO-15070146 MECO

Fax Results to: Name:
Fax #:
Purchase Order #:

MATRIX

TURNAROUND

Table with 8 columns: Air, Soil, Micro-Vac, 3 hrs, 6 Hours, Same Day or 12 Hours\*, 24 Hours (1 day), Bulk, Drinking Water, 48 Hours (2 days), 72 Hours (3 days), 96 Hours (4 days), 120 Hours (5 Days), Wipe, Wastewater, 144+ hours (6-10 Days)

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat; please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

\*12 hours (must arrive by 11:00 a.m Mon - Fri), Please Refer to Price Quote

PCM - Air, TEM Air, TEM Water, PLM - Bulk, TEM Bulk, TEM Microvac/Wipe, SEM Air or Bulk, PLM Soil, XRD, OTHER

Client Sample # (s) 83 - 103 Total Samples #: 21
Relinquished: [Signature] Date: 2-15-08 Time: 12:02
Received: [Signature] Date: 2/17/08 Time: 09:03
Relinquished: [Signature] Date: FEB 18 AM 9:03

RECEIVED
EMSL ANALYTICAL, INC.
CARLE PLACE, NY

06020749

# ASBESTOS



Received: \_\_\_\_\_

*ft r*

Date: \_\_\_\_\_

*2/12/03*

Time: \_\_\_\_\_

*0903*

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (If Applicable)
83	Bldg 1 - down - 12x12 vt & mastic	
84	↓	
85	↓	
86	- HVAC wrap	
87	- cig tile	
88	↓ - Dw cig	
89	- up - cig tile	
90	↓ - Dw cig	
91	↓ - Dw wall	
92	↓ ↓ - 12x12 vt & mastic	
93	Bldg 2 - upstairs office - linoleum & mastic	
94	Bldg 3 - pipe wrap	
95	↓ - paint filter	
96	↓ - pipe wrap	
97	↓	
98	- upstairs - 12x12 vt & mastic	
99	↓ ↓ - cig tile	

08 FEB 18 AM 9:03

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5472090



**APPENDIX D**

**ASBESTOS SUMMARY**

**BOARD OF COMMISSIONERS PORT OF NEW ORLEANS  
MECHANICAL EQUIPMENT CO INC (MECO) ASBESTOS SUMMARY**

Lab ID Number	Building	Floor	Description	Area	Analytical Results	Damage Condition	Asbestos Abatement Required	Abatement Method
83 VT	1	1	12 x 12 Vinyl Tile	600 sq	ND	poor	no	-
83 Mastic	1	1	12 x 12 Vinyl Tile Mastic	600 sq	ND	poor	no	-
84 VT	1	1	12 x 12 Vinyl Tile	1300 sq	2% chrysotile	poor	yes	removal
84 Mastic	1	1	12 x 12 Vinyl Tile Mastic	1300 sq	ND	poor	no	-
85 VT	1	1	12 x 12 Vinyl Tile	250 sq	ND	poor	no	-
85 Mastic	1	1	12 x 12 Vinyl Tile Mastic	250 sq	8% chrysotile	poor	yes	removal
86	1	1	HVAC Wrap	400 lin	40% chrysotile	poor	yes	removal
87	1	1	Ceiling Tile	2000 sq	ND	poor	no	-
88 DW	1	1	Drywall Ceiling	2000 sq	ND	poor	no	-
88 Joint Compound	1	1	Drywall Ceiling Joint Compound	2000 sq	ND	poor	no	-
89	1	2	Drop Ceiling Tile	900 sq	ND	poor	no	-
90 DW	1	2	Drywall ceiling	900 sq	ND	poor	no	-
90 Joint Compound	1	2	Drywall Ceiling Joint Compound	900 sq	ND	poor	no	-
91 DW	1	2	Drywall Wall	2000 sq	ND	poor	no	-

Lab ID Number	Building	Floor	Description	Area	Analytical Results	Damage Condition	Asbestos Abatement Required	Abatement Method
91 Joint Compound	1	2	Drywall Wall Joint Compound	2000 sq	ND	poor	no	-
92 VT	1	2	12 x 12 Vinyl Tile	50 sq	18% chrysotile	fair	yes	removal
92 Mastic	1	2	12 x 12 Vinyl Tile Mastic	50 sq	ND	fair	no	-
93 Lino	2	1	Linoleum	400 sq	ND	fair	no	-
93 Mastic	2	1	Linoleum Mastic	400 sq	ND	fair	no	-
94	3	1	Pipe wrap	154 lin	ND	poor	no	-
95	3	1	Paint filter	500 sq	ND	poor	no	-
96	3	1	Pipe wrap	75 lin	ND	poor	no	-
97	3	1	Pipe wrap	20 lin	ND	poor	no	-
98 VT	3	1	12 x 12 Vinyl Tile	300 sq	ND	poor	no	-
98 Mastic	3	1	12 x 12 Vinyl Tile Mastic	300 sq	<1% chrysotile	poor	yes	removal
99	3	1	Drop Ceiling Tile	300 sq	ND	poor	no	-
100	4	1	Drop Ceiling Tile	800 sq	ND	poor	no	-
101 Baseboard	4	1	Baseboard	150 lin	ND	poor	no	-
101 Mastic	4	1	Baseboard Mastic	150 lin	ND	poor	no	-
102 Lino	4	1	Linoleum	100 sq	ND	poor	no	-

Lab ID Number	Building	Floor	Description	Area	Analytical Results	Damage Condition	Asbestos Abatement Required	Abatement Method
102 Mastic	4	1	Linoleum Mastic	100 sq	ND	poor	no	-
103 DW	4	1	Drywall Ceiling	100 sq	ND	poor	no	-
103 Texture	4	1	Drywall Ceiling Texture	100 sq	ND	poor	no	-

**APPENDIX E**

**ASBESTOS ABATEMENT COST ESTIMATE**

**BOARD OF COMMISSIONERS PORT OF NEW ORLEANS  
MECHANICAL EQUIPMENT CO INC (MECO) ASBESTOS ABATEMENT COST ESTIMATE**

\*Costs does include mobilization, setup and abatement.

Location	Material	Quantity (Area sq. ft./lin. Ft.)	Total Cost per square foot	Cost per Material	Total Cost per Floor	Total Cost per Building
Building 1, First Floor Office	Gray 12x12 vinyl floor tile	1,300	\$3.25	\$4,225.00	\$10,975.00	\$10,975.00
Building 1, First Floor Office	Black Mastic	250	\$3.00	\$750.00		
Building 1, First Floor Office	Thermal System Insulation (TSI) HVAC Wrap	400	\$15.00	\$6,000.00		
					<b>Total Cost per Property</b>	<b>\$10,975.00</b>