

Asbestos Survey

**Old City Water Plant
298 S.E. Clements Place
Lake City, Florida**

Submitted to:

**Ms. Debbie Garbett, CPPB
Purchasing Director
City of lake City
205 N. Marion Avenue
Lake city, Florida 32055**

ATLAS Project No.: 2984001

Date: November 15, 2010



Providing Solutions

Environmental Consultants

2430 University Blvd. West, Jacksonville, Florida 32217 904-731-0241

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Introduction

Under the authorization of Ms. Debbie Garbett, CPPB Purchasing director, City of Lake City, **ATLAS Scientific Technologies, Inc.** conducted an inspection and sampling of the study site on November 10, 2010. The purpose of this study was to identify accessible asbestos-containing materials. The extent of the materials within the study site was estimated; however the scope of this study does not include demolition of any building components, evaluation of engineering plans or specifications or the quantification of materials for the purpose of abatement design, or removal cost estimating. **This report is not a management plan, asbestos abatement work plan, specification, guideline or bid document.**

Proper management of buildings with regard to asbestos issues includes the following elements:

1. Conducting a comprehensive suspect materials **survey**;
2. Developing an appropriate asbestos materials **management plan** that addresses the management of asbestos containing materials in place or the proper and controlled removal of asbestos containing materials;
3. Development of an abatement **guideline or specification**, including the quantification of all asbestos materials and a description of all procedures, controls, monitoring, clearance and regulatory requirements;
4. Development of **bid documents**.

Properly planned and managed asbestos abatement is the most economical and reasonable approach and assures the most defensible position with regard to liability and regulatory action.

The survey services were provided under the direction of **ATLAS'** Licensed Asbestos Consultant (Dave W. Knothe, CIH), License No. IA0000007.

ATLAS' field inspector was Russell D. Cox, Accreditation No. BI-115-032410-0003.

The project study site included:

- ◆ A water plant located at 298 S.E. Clements Place, Lake City, Florida.

This survey did not include the destructive sampling of any materials.

Identification of suspect asbestos materials was made by visually inspecting accessible areas included in the scope of the project, sampling suspect bulk materials and submitting these material samples to a NVLAP accredited laboratory (**ATLAS Scientific Technologies, Inc.**) for analysis by Polarized Light Microscopy with dispersion staining (PLM/DS). The sampling was limited to the materials presented in Table II-A of Section IIA.

- ◆ The table(s) included in Section IIB present all of the materials found to contain asbestos.
- ◆ The table(s) included in Section III presents abatement priorities.

Section II

Findings

Representative bulk samples were collected from materials suspected of containing asbestos utilizing EPA's simplified random sampling method (EPA 560/5-85-030a). Bulk samples were collected from materials that were first grouped into homogeneous sampling areas.

Homogeneous sampling areas can be defined as a type of material of the same visual appearance, texture, use and which was applied during the same general time period. The number of samples collected from each homogeneous area was in general accordance with the guidelines established by the Environmental Protection Agency (EPA).

A total of **38** bulk material samples were collected representing **16** homogeneous areas.

The suspect materials sampled are presented in Section II, Table II-A.

A total of **6** samples were determined or assumed to contain asbestos utilizing polarized light microscopy (PLM). These materials and analytical results are presented in Section IIB, Table II-B: *Asbestos-containing Building Materials*.

A. Suspect Materials

Sampling was limited to the materials listed in Table II-A: *Suspect Asbestos-containing Building Materials Sampled*. Suspect Material Codes are presented on the following page.

These codes are utilized in Table II-A – *Suspect Asbestos-containing Building Materials Sampled*, and Table II-B – *Asbestos-Containing Building Materials* to describe the types of suspect materials sampled.

SUSPECT MATERIAL CODES

Material Category / Material Code	Material Type
1. <u>Surfacing Material</u> SFP SAF STF SMO	Fireproofing Acoustical Finishes Textured Finishes Surfacing Other
2. <u>Ceiling Materials</u> CTS CTA CGB CMO	Tile Suspended Tile Attached / Spline Gypsum Board Other
3. <u>Thermal System Insulation</u> TIP TIF TIV TID TIO	Pipe Insulation Fitting Insulation Vessel, Tanks, Boiler Jackets Duct Insulation Thermal Insulation – Other
4. <u>Wall Materials</u> WMG WMP WMJ WMO	Gypsum Wallboard Plaster Joint Compound Other
5. <u>Floor Coverings</u> FCT FCA FCS FCO	Floor Tile Floor Adhesive Sheet Type Material (linoleum) Floor Cover – Other
6. <u>Miscellaneous Materials</u> MIS	<i>Examples:</i> Cement Asbestos Board, Sink Bottom, Mastics, Adhesives, Baseboards, etc.
7. <u>Roofing Materials</u> RCS RCF RCM RCB RFE RFW RMO	Roof Covering (asphalt shingle) Roof Covering – Felt Paper Roof Covering – Membrane Roof Covering – Built-up (Tar/Gravel) Roof Flashing – Equipment & Vents Roof Flashing – Walls Roof Material – Other

Table II-A – Suspect Asbestos-containing Building Materials Sampled is presented on the following page(s).

Table II-A
Suspect Asbestos-Containing Building Materials Sampled
A water plant located at 298 S.E. Clements Place, Lake City, Florida.

Material Category - Material Type	Homogeneous Area (Material)				Sample No.
	Code-No	Photo	Description	Extent of Material	
Surfacing Materials	N/A	N/A	No Suspect Material Found	N/A	N/A
Ceiling Materials					
Gypsum Board Ceiling	CGB-12	N/A	Gypsum board ceiling, white with texture, white	Office Building-throughout	14, 15, 16
Gypsum Board Ceiling	CGB-13	N/A	Gypsum board ceiling, white with texture, white, and joint compound, white	Office Building-far southwest room only	17
Thermal System Insulation	N/A	N/A	Material sampled-No Asbestos Detected		
Thermal Wrap Insulation	TIO-03	N/A	Cloth wrap, white	Pump house-2 nd level riser	03
Insulation	TIO-14	N/A	Attic insulation, tan	Office Building-throughout the attic	18
Wall Materials					
Gypsum Wall Board	WMG-11	N/A	Gypsum wall board, white and joint compound, white	Office Building-throughout the building	11, 12, 13
Floor Coverings					
Floor Tile	FCT-06	N/A	Floor tile, 12"x12", white, adhesive, white	Office Building-kitchen and bathrooms	06
Floor Tile	FCT-07	N/A	Floor tile, 12"x12", blue, and adhesive, clear	Office Building-hallway and kitchen	07
Floor Tile	FCT-08	N/A	Floor tile, 12"x12", green, and adhesive, clear	Office Building-patches in kitchen	08
Sheet Flooring	FCS-09	N/A	Sheet flooring (Linoleum), tan, adhesive, tan	Office Building-in large closet/room in southwest corner	09
Carpet Adhesive	FCA-10	N/A	Carpet adhesive, tan and leveling compound, white	Office Building-throughout the southwest section	10
Miscellaneous Materials					
Window Putty	MIS-01	N/A	Window putty, tan	Pump house-throughout	01

NIS =	Not in Scope
N/A =	Not Applicable



**Table II-A
Suspect Asbestos-Containing Building Materials Sampled**

Material Category - Material Type	Homogeneous Area (Material)				Sample No.
	Code-No	Photo	Description	Extent of Material	
Gasket	MIS-02	N/A	Gasket, orange	Pump house-2 nd floor riser 1 st level of pump house immersed in water-unable to sample-no visible Thermal System Insulation (TSI)	02
Roofing Materials					
Roof Shingle	RMO-04	N/A	Roof shingle (transite), gray	Pump house-rear, northwest overhang	04
Roof Tar Paper	RCF-05	N/A	Roof tar paper, black	Pump house-rear, northwest overhang-upper roof of pump house inaccessible	05
Roof Shingle	RCF-15	N/A	Roof shingle, double, black, and tar paper, black	Office Building-throughout the roof	19
Roof Sealant	RMO-16	N/A	Roof sealant, black	Office Building-throughout the roof where roof penetrations are	20

NIS =	Not in Scope
N/A =	Not Applicable



B. Asbestos-containing Materials

All accessible suspect materials discovered during the site investigation were sampled. Suspect materials declared as asbestos-containing by the Client prior to the investigation were assumed to be asbestos-containing. Analytical results indicate that the following **categories of material contain asbestos**:

Category / Types of Materials	Friable¹ √	Non-Friable² √
➤ Ceiling Materials-Texture	√	
➤ Floor Coverings-Sheet Flooring (Linoleum)	√	
➤ Roofing Materials-		√

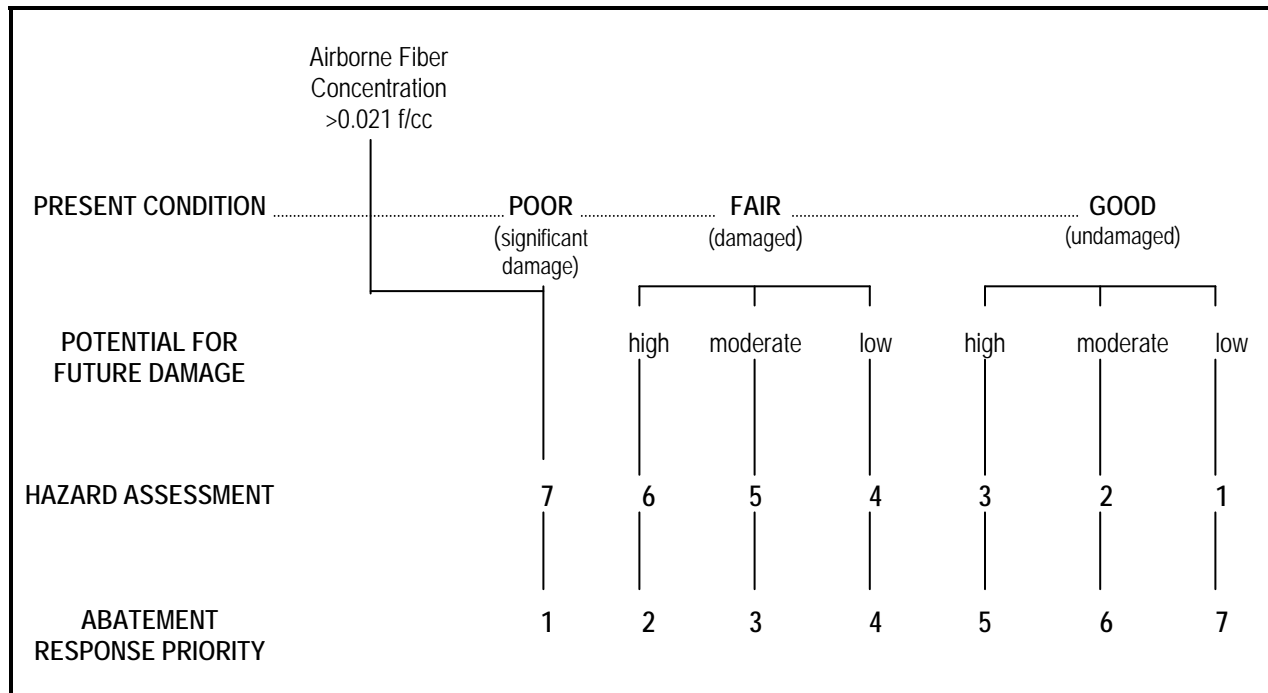
The descriptions, analytical results and assessments of the asbestos-containing materials are presented in Table II-B of this section.

All identified asbestos-containing materials were assessed for potential asbestos exposure hazards. The potential asbestos exposure hazards are based on the condition of the material and its potential for disturbance. The hazard assessment and the abatement response priority are determined by utilizing the Asbestos Hazard Assessment Decision Tree outlined below.

¹ *Friable materials are those that when dry can be crumbled, pulverized or reduced to a powder by hand pressure. Disturbance of these materials can more easily result in the release of airborne fibers. More stringent regulatory requirements are imposed on these materials.*

² *Non-friable materials are those that when dry **cannot** be crumbled, pulverized or reduced to a powder by hand pressure.*

Asbestos Hazard Assessment Decision Tree



The hazard ranking for each functional space (homogeneous material) will be a number ranging from "1" to "7". A hazard ranking of "1" indicates that the material is in "good" condition with a "low" potential for future damage. This material would have a low abatement response priority. A hazard ranking of "5" would indicate that the material is in "fair" condition with a "moderate" potential for future damage. This material would subsequently have a higher priority for a response action. A ranking of "7" would indicate the material is in "poor" condition and therefore would have the highest priority for an abatement response action.

Table II-B in Section IIB presents the hazard assessment and the abatement response priority ranking for each asbestos-containing material as determined by the Hazard Assessment Decision Tree.

If other materials are discovered during renovation or demolition activities, samples should be collected and analyzed prior to disturbance of the material.

Table II-B – Asbestos-Containing Building Materials is presented on the following page(s).

**Table II-B
Asbestos-Containing Building Materials**

A water plant located at 298 S.E. Clements Place, Lake City, Florida.

Material Category - Material Type	Homogeneous Area (Material)				%	Friable	Hazard	Abatement
	Code-No.	Photo No.	Material Description	Sample No.	Asbestos	Y/N	Asses s s	Response
Surfacing Materials	N/A	N/A	No Suspect Material Found	N/A	N/A	N/A	N/A	N/A
Ceiling Materials								
Gypsum Board Ceiling	CGB-12	N/A	Gypsum board ceiling, white with texture, white	14 15 16	Gypsum Board- NAD Texture 1% C	Y	2	6
Thermal System Insulation	N/A	N/A	Material sampled-No Asbestos Detected	N/A	NAD	N/A	N/A	N/A
Wall Materials	N/A	N/A	Material sampled-No Asbestos Detected	N/A	NAD	N/A	N/A	N/A
Floor Coverings								
Sheet Flooring	FCS-09	N/A	Sheet flooring (Linoleum), tan, mastic, tan	09	30% C	Y	2	6
Miscellaneous Materials	N/A	N/A	Material sampled-No Asbestos Detected	N/A	NAD	N/A	N/A	N/A
Roofing Materials								
Roof Shingle	RMO-04	N/A	Roof shingle (transite), gray	04	20% C	N	5	3
Roof Tar Paper	RCF-05	N/A	Roof tar paper, black	05	40% C	N	5	3

C =	Chrysotile	N/A =	Not Applicable	1.	See Section II-B – Asbestos Hazard Assessment Decision Tree.
A =	Amosite	s.f. =	square feet	2.	Sample was analyzed by point counting and results confirm the material to be asbestos-containing.
NAD =	No Asbestos Detected	l.f. =	linear feet	3.	Sample was analyzed by point counting and results indicate that the material contains equal to or less than 1% asbestos.
NIS =	Not in Scope				

Conclusions and Recommendations

Asbestos

Asbestos-containing materials were found within the scope of this study and are listed in Section II-B.

Asbestos is a hazardous substance that may have serious health effects associated with the exposure to airborne fibers. Accidental disturbance or improper and careless removal can cause release of a significant airborne concentration of fibers.

All materials identified as asbestos-containing in this report should be managed under a Comprehensive Operations and Maintenance Program until they are systematically removed or for the life of the building. These materials must be addressed and handled appropriately prior to any disturbance by routine operational activities, renovation or demolition.

All asbestos abatement should be properly planned, managed and monitored by a qualified Asbestos Consultant (licensed in the State of Florida). All asbestos removal should be conducted in accordance with abatement specifications that are prepared by a qualified Asbestos Consultant (licensed in the State of Florida). Clearance air testing by a Licensed Asbestos Consultant should be conducted in all areas prior to re-occupancy if any asbestos has been removed or disturbed.

This report is not a management plan, asbestos abatement work plan, specification, guideline or bid document.

Proper management of buildings with regard to asbestos issues includes the following elements:

1. Conducting a comprehensive suspect materials **survey**;
2. Developing an appropriate asbestos materials **management plan** that addresses the management of asbestos containing materials in place or the proper and controlled removal of asbestos containing materials;
3. Development of an abatement **guideline or specification**, including the quantification of all asbestos materials and a description of all procedures, controls, monitoring, clearance and regulatory requirements;
4. Development of **bid documents**.

Properly planned and managed asbestos abatement is the most economical and reasonable approach and assures the most defensible position with regard to liability and regulatory action.

NOTE: *This study scope did not include the demolition of building components, evaluation of engineering plans or architectural specifications. The “extent of material” estimates are*

Conclusions and Recommendations

based solely on visual inspection of the accessible areas and do not constitute an accurate quantification for the purpose of abatement design, bidding or removal cost estimates.

Professional fees must also be considered when planning an asbestos abatement project. The abatement design and management must be provided by a Florida Licensed Asbestos Consultant.

On-site air monitoring and construction supervision are absolutely vital during an asbestos abatement project. These services are necessary to ensure that the Contractor is complying with all aspects of the specification and that the appropriate air monitoring of the work area and the adjacent environment is conducted. In addition, the air monitoring records provide the owner with valid scientific information regarding the manner in which the project was executed and the quality of the air prior to re-occupancy of the area.

Section I
Introduction

Section II

Findings

Section III

Conclusions and Recommendations

Appendix A

**Laboratory Report &
Sample Chain of Custody**



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Email: nvlaplab@atlasscitech.com

NVLAP Code 200534-0

Polarized Light Microscopy
Asbestos Analysis Report

Lab Report No. 11-15-10-03 Date Received: 11/11/10
Client Name: Atlas Scientific Technologies, Inc. Received by: Russell D. Cox
Client Address: 2430 University Blvd., West Date Analyzed: 11/15/10
Jacksonville, Florida 32217 Analyzed by: Russell D. Cox
Client Project: Lake City Old City Water Plant, Project # 2984001 Methodology: EPA/600/R-93/116

Table with 6 columns: ATLAS Sample ID, Client Sample ID, Homogeneous or Layered, Description / Color, Asbestos (%), Non-asbestos Fiber (%). Rows include samples 50342 through 50353 with various descriptions like Putty, Gasket, Cloth, Transite, Tar Paper, Floor Tile, Adhesive, and Linoleum.

Comments:

- 1. NAD = No Asbestos Detected
2. IM = Insufficient Material for Analysis
3. Assumed + = Assumed to be positive due to the asbestos composition of the previous homogeneous sample.

Russell D. Cox

Approved Signatory

11/15/10

Date of Report

Disclaimer: Due to the limitations of Method EPA/600/R-93/116 PLM analysis may not detect asbestos in very low percentages, < 5 um in length, or contained in a non-friable organically bound (NOB) material such as floor tile or tar. ATLAS recommends that NOBs and samples reported as <=1% or "NAD" be reanalyzed by TEM.

ATLAS Scientific Technologies, Inc. is a NVLAP accredited laboratory (Lab Code 200534-0). This report relates only to the specific items tested. NVLAP accreditation applies only to AHERA analysis [40CFRCh.1 (1-1-87 ed.) Part 763, App. A to subparts E and F]. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. The initial recipient may display, print and reproduce this material in an unaltered form (retaining this notice) only for the purpose of relaying the information presented. All other rights are reserved.



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Jacksonville, Florida 32217 Analyzed by: Russell D. Cox
Lake City Old City Water Plant,
Client Project: Project # 2984001 Methodology: EPA/600/R-93/116

Table with 6 columns: ATLAS Sample ID, Client Sample ID, Homogeneous or Layered, Description / Color, Asbestos (%), Non-asbestos Fiber (%). Rows 50354-50364.

Comments:

- 1. NAD = No Asbestos Detected
2. IM = Insufficient Material for Analysis
3. Assumed + = Assumed to be positive due to the asbestos composition of the previous homogeneous sample.

Russell D. Cox

Approved Signatory

11/15/10

Date of Report

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NVLAP Code 200534-0

Polarized Light Microscopy
Asbestos Analysis Report

Lab Report No. 11-15-10-03 Date Received: 11/11/10
Client Name: Atlas Scientific Technologies, Inc. Received by: Russell D. Cox
Client Address: 2430 University Blvd., West Date Analyzed: 11/15/10
Jacksonville, Florida 32217 Analyzed by: Russell D. Cox
Lake City Old City Water Plant,
Client Project: Project # 2984001 Methodology: EPA/600/R-93/116

Table with 6 columns: ATLAS Sample ID, Client Sample ID, Homogeneous or Layered, Description / Color, Asbestos (%), Non-asbestos Fiber (%). Rows include sample IDs 50365 through 50375 with corresponding analysis results.

Comments:

- 1. NAD = No Asbestos Detected
2. IM = Insufficient Material for Analysis
3. Assumed + = Assumed to be positive due to the asbestos composition of the previous homogeneous sample.

Russell D. Cox

Approved Signatory

11/15/10

Date of Report

Disclaimer: Due to the limitations of Method EPA/600/R-93/116 PLM analysis may not detect asbestos in very low percentages, < 5 um in length, or contained in a non-friable organically bound (NOB) material such as floor tile or tar. ATLAS recommends that NOBs and samples reported as <=1% or "NAD" be reanalyzed by TEM.

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NVLAP Code 200534-0

Polarized Light Microscopy
Asbestos Analysis Report

Lab Report No. 11-15-10-03 Date Received: 11/11/10
Client Name: Atlas Scientific Technologies, Inc. Received by: Russell D. Cox
Client Address: 2430 University Blvd., West Date Analyzed: 11/15/10
Jacksonville, Florida 32217 Analyzed by: Russell D. Cox
Lake City Old City Water Plant,
Client Project: Project # 2984001 Methodology: EPA/600/R-93/116

Table with 6 columns: ATLAS Sample ID, Client Sample ID, Homogeneous or Layered, Description / Color, Asbestos (%), Non-asbestos Fiber (%). Rows include sample IDs 50376, 50377, 50378, 50379 with descriptions like 'Shingle, black' and 'Tar Paper, black'.

Comments:

- 1. NAD = No Asbestos Detected
2. IM = Insufficient Material for Analysis
3. Assumed + = Assumed to be positive due to the asbestos composition of the previous homogeneous sample.

Russell D. Cox

Approved Signatory

11/15/10

Date of Report

Disclaimer: Due to the limitations of Method EPA/600/R-93/116 PLM analysis may not detect asbestos in very low percentages, < 5 um in length, or contained in a non-friable organically bound (NOB) material such as floor tile or tar. ATLAS recommends that NOBs and samples reported as <=1% or "NAD" be reanalyzed by TEM.

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SAMPLE CHAIN OF CUSTODY FORM
Manual Entry

2430 University Blvd West
Jacksonville, Florida 32217
Phone: 904-443-2636 Fax: 904-731-0242
Email: sampleright@atlassciotech.com

Company Name: Atlas Scientific Technologies, Inc. Report Results To: R. D. Cox Phone: 904-443-2636
 Street Address: 2430 University Blvd., West Report Mode: phone fax email To (#): dcox@atlassciotech
 City, State, Zip: Jacksonville, Florida 32217 Project Name: City of Lake City / Old City Water Plant
 Phone: 904-731-0241 Project No: 2984001

LAB ID	Client Sample #	Sample Description / Location	Sample Date	Analysis Requested (See Matrix Code Below)	Air Volume	Requested Turnaround
	01	Window Putty	11-10-10	Asb - PLM		72 Hr
	02	Gasket	11-10-10	Asb - PLM		72 Hr
	03	Cloth Wrap	11-10-10	Asb - PLM		72 Hr
	04	Transite	11-10-10	Asb - PLM		72 Hr
	05	Tar Paper	11-10-10	Asb - PLM		72 Hr
	06	Floor Tile & Adhesive	11-10-10	Asb - PLM		72 Hr
	07	Floor Tile & Adhesive	11-10-10	Asb - PLM		72 Hr
	08	Floor Tile & Adhesive	11-10-10	Asb - PLM		72 Hr
	09	Linoleum & Adhesive	11-10-10	Asb - PLM		72 Hr
	10	Adhesive & Leveling Compound	11-10-10	Asb - PLM		72 Hr
	11	Wall Texture, Drywall, & Joint Compound Wall Texture, Drywall, & Joint Compound	11-10-10	Asb - PLM		72 Hr
	12	Wall Texture, Drywall, & Joint Compound	11-10-10	Asb - PLM		72 Hr

Sample Analysis Matrix Code

Asb - PCM → Asbestos - Phase-Contrast Microscopy (NIOSH 7400)
 Asb - PLM → Asbestos - Polarized Light Microscopy (EPA8300R-93/116)
 Asb - TEM → Asbestos - Transmission Electron Microscopy (AHERA 40 CFR, Part 763 Subpart E)

Lead - Air → Lead - Air - Flame Atomic Absorption / NIOSH 7082
 Lead - Chips → Lead - Chips - Flame Atomic Absorption / SW846-7420
 Mold - Tape Lift → Mold - Tape Lift
 Mold - Air → Mold - Air - Cell

Relinquished By: [Signature] Date / Time: 11-11-10 09:00

Received By: [Signature] Date / Time: 11-11-10 09:00

STANDARD TURNAROUND TIMES:
 Asbestos - 72 hours
 Lead - 72 hours
 Mold - 72 hours
 Please call for rush turnaround rates



SAMPLE CHAIN OF CUSTODY FORM
Manual Entry

2430 University Blvd West
Jacksonville, Florida 32217
Phone: 904-443-2636 Fax: 904-731-0242
Email: sampleright@atlassciotech.com

Company Name: Atlas Scientific Technologies, Inc. Report Results To: R. D. Cox Phone: 904-443-2636
 Street Address: 2430 University Blvd., West Report Mode: Check phone fax email Report To (#): docx@atlassciotech
 City, State, Zip: Jacksonville, Florida 32217 Project Name: City of Lake City / Old City Water Plant
 Phone: 904-731-0241 Project No: 2984001

LAB ID	Client Sample #	Sample Description / Location	Sample Date	Analysis Requested (See Matrix Code Below)	Air Volume	Requested Turnaround
50364	13	Wall Texture, Drywall, & Joint Compound	11-10-10	Asb - PLM		72 Hr
	14	Ceiling Texture & Drywall	11-10-10	Asb - PLM		72 Hr
	15	Ceiling Texture & Drywall	11-10-10	Asb - PLM		72 Hr
	16	Ceiling Texture & Drywall	11-10-10	Asb - PLM		72 Hr
	17	Ceiling Texture, Drywall, & Joint Compound	11-10-10	Asb - PLM		72 Hr
	18	Attic Insulation	11-10-10	Asb - PLM		72 Hr
	19	Shingles & Tar Paper	11-10-10	Asb - PLM		72 Hr
	20	Roof Sealant	11-10-10	Asb - PLM		72 Hr

Sample Analysis Matrix Code

Asb - PCM → Asbestos - Phase-Contrast Microscopy (NIOSH 7400)
 Asb - PLM → Asbestos - Polarized Light Microscopy (EPA/600/R-93/116)
 Asb - TEM → Asbestos - Transmission Electron Microscopy (AHERA 40 CFR, Part 763 Subpart E)

Lead - Air → Lead - Air - Flame Atomic Absorption / NIOSH 7082
 Lead - Chips → Lead - Chips - Flame Atomic Absorption / SW846-7420
 Mold - Tape Lift → Mold - Tape Lift
 Mold - Air → Mold - Air - Cell

STANDARD TURNAROUND TIMES:
 Asbestos - 72 hours
 Lead - 72 hours
 Mold - 72 hours
 Please call for rush turnaround rates.

Relinquished By: [Signature] Date / Time: 11-11-10 08:00

Received By: [Signature] Date / Time: 11-11-10 08:00