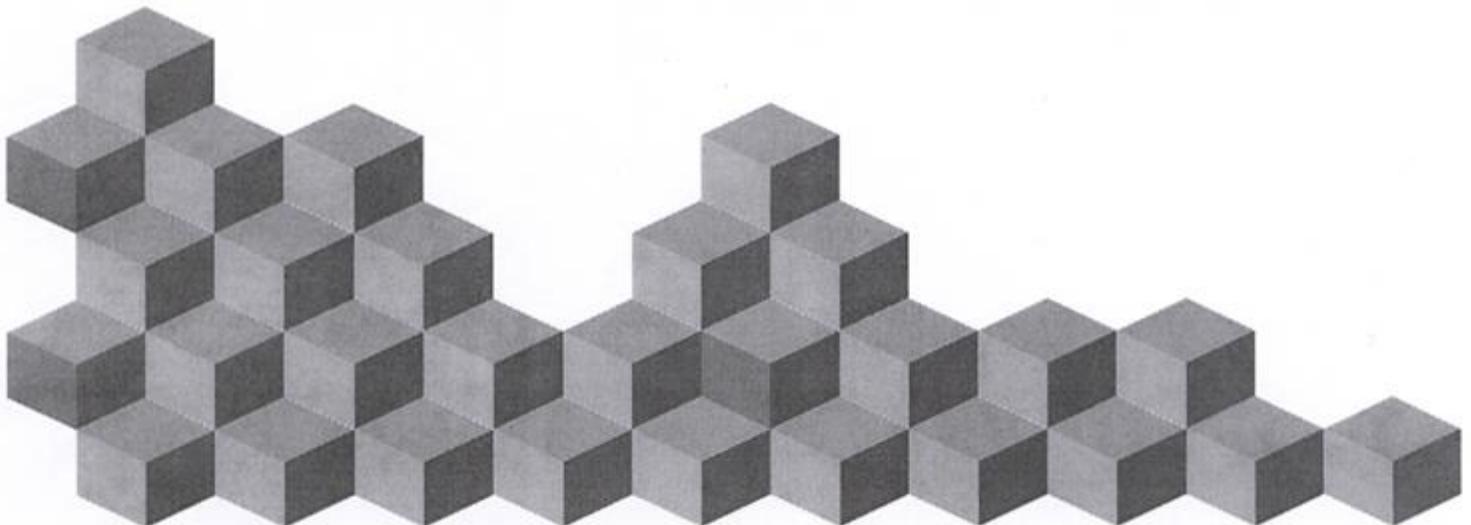

Environmental Consultants
&
Management Services

Asbestos Survey Report

Water Facility - West Houston #3
14925 South Richmond Avenue
HOUSTON, TX

WBS No. S-001000-0046-4
Task Number 14-13
ECMS Project Number: 3817C

Prepared for:
City of Houston
Public Works and Engineering Department
Engineering & Construction Division
Geo-Environmental Branch
611 Walker-14th Floor, Houston, Texas 77002



ASBESTOS SURVEY REPORT

Water Facility - West Houston #3

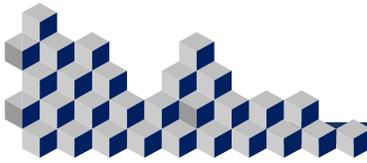
14925 South Richmond Avenue
Houston, Tx.

WBS No. S-001000-0046-4
Task Number: 14-13
ECMS Project Number: 3817C

Prepared for:

City of Houston
Public Works & Engineering Department
Engineering & Construction Division
Geo-Environmental Branch
611 Walker Street, 14th Floor,
Houston, Texas 77002

January 15, 2015



ECMS, Inc.

Engineering Management, Construction Support & Environmental Services

January 15, 2015

Public Works & Engineering Department
Engineering & Construction Division
Geo-Environmental Branch
611 Walker Street, 14th Floor,
Houston, Texas 77002

Re: Asbestos Survey Report
Water Facility - West Houston #3
14925 South Richmond Avenue
Houston, Tx.

WBS No. S-001000-0046-4
Task Number: 14-13
ECMS Project Number: 3817C

Environmental Consulting & Management Services, Inc. (ECMS) is pleased to present the results of the asbestos survey conducted at the above referenced facility.

This report includes the results of our findings from visual reconnaissance, sampling and laboratory analysis. An assessment of the information was made to arrive at the conclusions stated and the recommendations presented.

We appreciate the opportunity to be of service to you and look forward to working on future assignments. Should you have any questions concerning this report or if we can assist you with any other matter, please feel free to contact us. ECMS personnel are available for your assistance around the clock.

Sincerely,
Environmental Consulting & Management Services, Inc. (ECMS)

Tyrone P. Dorian, P.E., P.G.
Individual Asbestos Consultant #10-5313

Table of Contents

Qualifications and Limitations	1
Executive Summary.....	2
Asbestos Summary.....	2
Findings:.....	2
Recommendations:.....	2
COMPREHENSIVE ASBESTOS SURVEY.....	3
Scope of Services	3
Facility Description.....	3
Sampling Techniques and Laboratory Methods	3
Survey Methods.....	4
Table 1: HAZARD CATEGORY AND RESPONSE ACTION.....	5
Laboratory Methods	5
Asbestos-Containing Material (ACM) Verification and Assessment	6
Hazard Assessment Results	6
TABLE 2: SUSPECT ACM ANALYTICAL RESULTS	6
Findings and Recommendations.....	6
Findings.....	6
Recommendations	6
CHECK LIST FOR ASBESTOS SURVEYS	8
APPENDIX A FACILITY LOCATION MAP	10
APPENDIX B SITE PHOTOGRAPHS.....	13
APPENDIX C ASBESTOS ANALYTICAL RESULTS	19
APPENDIX D LICENSE AND CERTIFICATION	24

Qualifications and Limitations

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The conclusions and recommendations describe only the conditions present at the time of our assessment, in areas that were observed. Opinions and recommendations presented herein apply to facility conditions existing at the time of our investigation and those reasonably foreseeable.

This report is prepared for the sole and exclusive use of the City of Houston, its contractors or agents. It is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating Asbestos-Containing Materials (ACM).

Reasonable efforts were made to obtain representative samples of building materials and have those materials analyzed for asbestos content. Should suspect materials be discovered during building renovation/demolition that have not been addressed, samples of the materials should be collected and analyzed for asbestos content prior to renovation and/or demolition.

Notification to the Texas Department of State Health Services (DSHS) must be given prior to any renovations or demolition activities.

Executive Summary

Environmental Consultants & Management Services, Inc. (ECMS) conducted an asbestos surveys on January 5, 2015, at the Water Facility - West Houston #3, located at 14925 South Richmond Avenue Houston, TX. The Pump Station building is approximately 40'x15' located at the front of the property. The interior of the structure contains multiple pumping systems and a control room. The entire operating facility is totally enclosed with perimeter fencing.

Site inspections and bulk sample collections were conducted using standard protocols specified by the Texas Asbestos Health Protection Act (TAHPA). All accessible area of the facility was sampled. Inaccessible materials (gaskets, equipment gaskets, and buried piping) are assumed to be asbestos containing materials until tested.

J3 Laboratory Inc. is a State of Texas Licensed Asbestos Laboratory (PCM, PLM, TEM) and NVLAP and ELLAP Accredited and performed all asbestos.

Asbestos Summary

Findings:

Seventeen (17) bulk material samples consisting of: eight flange gaskets associated with pressure valves-horizontal valves and wing valves in good condition, six centrifuge pump gaskets associated with pumps #1 - #4 in good condition, two expansion joints at the restroom outside walls in fair condition, and one pipe sealant at 1st stage inlet line on east area of building in fair condition were taken for suspect asbestos-containing materials (ACM). All samples collected tested negative for asbestos content. (City of Houston Hazard Category A) - No asbestos found and no abatement is required.

No other suspect asbestos-containing materials were identified.

Recommendations:

Based on the analytical findings and site observation, no abatement activity is required.

COMPREHENSIVE ASBESTOS SURVEY

Environmental Consultants & Management Services, Inc. (ECMS) has completed an asbestos survey at the Water Facility – West Houston #3 Pump Station located at 14925 South Richmond Avenue Houston, Texas, and referred to as the "facility".

Scope of Services

This survey was performed to determine the presence, location, and condition of Asbestos-Containing Materials (ACM) at the referenced facilities. Site inspections and bulk sample collections were conducted using standard protocols for sampling and analysis specified by the Texas Asbestos Health Protection Act (TAHPA). All accessible areas of the facility were inspected and suspect materials sampled. Inaccessible materials were assumed to be asbestos-containing materials until available for testing (drop gaskets, equipment gaskets, and underground piping). Site records were available for use during the inspection.

Tyrone P. Dorian, an EPA-accredited/TDH-Licensed Asbestos Inspector with ECMS performed the facility inspection on January 5, 2015. The samples were collected in a manner that reduced potential for fiber and dust release and exposure using standard methods. All samples were deposited into secure containers and labeled for transport to the J3 Laboratory in Houston, Texas. J3 Laboratory is a State Licensed Asbestos Laboratory (PCM, PLM, TEM) and NVLAP Accredited.

Only materials accessible at the time of the survey were inspected. Underground components and equipment were not accessible.

The inspection consisted of the following:

- Sampling of suspect Asbestos-Containing Materials (ACMs).
- Quantifying and qualifying ACM.
- Locating ACM samples on computer generated maps.
- Preparing an inspection report.

Facility Description

The Pump Station building is approximately 40'x15' located at the front of the property. The interior of the structure contains multiple pumping systems and a control room. The entire operating facility is totally enclosed with perimeter fencing.

Sampling Techniques and Laboratory Methods

This section details the sampling and laboratory methods used in the comprehensive asbestos survey to quantify and assess the condition of the confirmed ACM.

Survey Methods

This section addresses the criteria necessary for identifying, evaluating and assessing suspect Asbestos-Containing Materials (ACMs).

- a. Homogeneous Areas: Prior to collecting bulk samples of suspect ACM, distinct homogeneous sampling areas and specific sampling sites were defined based on building construction dates. A homogeneous sample area can be defined as a material that is similar in appearance, color, and generally having the same episode of installation as surrounding "like" material. Attempts were made in all cases to obtain representative samples of like materials, as this is the most cost-effective method for determination of ACM. It should be assumed by the building owner, contractor, and the abatement contractors that the composition of like materials in a single homogeneous area is the same. Homogeneous areas sampled as part of this survey include materials which have been identified by ECMS as ACM and have been classified as friable (material containing more than one-percent asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure) or non-friable (material containing more than one-percent asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure). Friable materials are more likely to become airborne, thereby increasing the potential for health hazards.
- b. Hazard Assessment: According to AHERA (December 30, 1986), verified friable or assumed ACM uncovered in an inspection or re-inspection of a facility shall be accessed in view of past, present, or future likelihood of disturbance and may include the following:
 1. Location of material present.
 2. Condition of material: type of damage, severity of damage, and the extent or spread of damage.
 3. Accessibility of the materials.
 4. Potential for disturbance of the material.
 5. Known or suspected causes of damage (i.e., air erosion, vandalism, service or repair, vibration, and water).
 6. Preventive measures which might eliminate the likelihood of undamaged ACM from becoming significantly damaged.
 7. Actions to be taken to protect human health.

The above hazard assessment factors will be discussed according to classifications of verified ACM. The ACM is usually examined and prioritized according to hazard categories based on condition, location, potential for damage and potential for fiber release. The asbestos hazard categories as defined by the City of Houston are presented in Table 1 as follows:

Table 1: HAZARD CATEGORY AND RESPONSE ACTION	
Hazard Category	Response Action
C-1: Asbestos Present	Serious health hazard, as defined by EPA, abatement should be a top priority
C-2: Asbestos Present	Health hazard, as defined by EPA, abatement should be planned
C-3: Asbestos Present	No action necessary unless renovation, remodeling, or demolition is planned
B-1: Asbestos Present	Contains 1% asbestos, or less, not regulated by TDH
B-2: Asbestos Present	Adequately enclosed
B-3: Asbestos Present	Adequately encapsulated
A: No asbestos found	N/A
A-1: Asbestos Abated	Once identified asbestos containing materials have been abated

- c. Field Methods: All accessible areas of the facility were inspected for the presence of suspect ACM. Based on visual surveillance, Three homogeneous (3) areas were suspect of ACM at the subject site at the time of our site visit

Laboratory Methods

The materials sampled were analyzed using the Polarized Light Microscopy (PLM) methods with dispersion-staining techniques according to US EPA Method EPA 600/R93/116. This type of analysis requires the microscopist to take a portion of the bulk sample and treat it with a special light-refractive oil emulsion stain. The prepared slide is then subjected to a variety of tests while being viewed under varying polarization of light.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of the identified types of asbestos are determined by visual estimation. Even though this is estimation, any material that contains over one percent (> 1%) of any type of asbestos using the PLM Method is considered an ACM and must be handled according to OSHA, EPA, and State regulations if disturbed.

J3 Labs participates in the EPA Quality Assurance Program for Polarized Light Microscopy and are accredited by the EPA/NIST. This program helps ensure accurate repeatable results on the part of the analyst.

Asbestos-Containing Material (ACM) Verification and Assessment

ECMS has completed an asbestos survey at the Water Facility – West Houston #3 Pump Station located at 14925 South Richmond Avenue in Houston, Texas. The scope of services was to inspect the building for the presence of asbestos-containing materials. Only materials accessible at the time of the survey were inspected. Underground components and equipment were not accessible.

Seventeen (17) bulk material samples consisting of: eight flange gaskets associated with pressure valves-horizontal valves and wing valves in good condition, six centrifuge pump gaskets associated with pumps #1 - #4 in good condition, two expansion joints at the restroom outside walls in fair condition, and one pipe sealant at 1st stage inlet line on east area of building in fair condition were taken for suspect asbestos-containing materials (ACM). All samples collected tested negative for asbestos content. (City of Houston Hazard Category A) - No asbestos found and no abatement is required.

No other suspect asbestos-containing materials were identified.

Hazard Assessment Results

The exact hazard ratings as defined by the City of Houston Hazard Category and Response Action (Table 1) are referenced in Table 2.

TABLE 2: SUSPECT ACM ANALYTICAL RESULTS						
Homogenous Area No.	Material	Location	Type*	Damaged*	Hazard Risk*	Asbestos Content (ND= None Detected)
1	Gaskets	Flanges and Centrifuge	Non-friable	Fair Condition	A	ND
2	Glazing/Caulking	Inlet Pipe of East wall	Non-Friable	Fair Condition	A	ND
3	Expansion Joint	Restroom Building	Non-Friable	Fair Condition	A	ND

Findings and Recommendations

Findings

Seventeen (17) bulk material samples consisting of: eight flange gaskets associated with pressure valves-horizontal valves and wing valves in good condition, six centrifuge pump gaskets associated with pumps #1 - #4 in good condition, two expansion joints at the restroom outside walls in fair condition, and one pipe sealant at 1st stage inlet line on east area of building in fair condition were taken for suspect asbestos-containing materials (ACM). All samples collected tested negative for asbestos content. (City of Houston Hazard Category A) - No asbestos found and no abatement is required.

No other suspect asbestos-containing materials were identified.

Recommendations

Based on the analytical findings and site observation; no abatement activity is required at the Pump Station building.

CHECK LIST FOR ASBESTOS SURVEYS

NAME OF THE FACILITY: **Water Facility- West Houston #3,**

FACILITY ADDRESS: **14925 South Richmond Avenue, Houston, Texas**

DATE OF THE SURVEY: **1/05/ 2015**

CONSULTANT: **ECMS, Inc.**

INSPECTOR (S) NAME: **Tyrone P. Dorian**

Note: Items/information listed below must be included in the report. Use this checklist to ensure completeness of your report. Mark "X" or "check" in front of the information included in the report. *Submit completed check list with the report. If a facility is surveyed for asbestos and lead, the survey reports shall be segregated in one binder or preferably two separate reports.*

1. ✓ Date and Contract number of the survey
2. ✓ Scope of work
3. ✓ Copy of the inspectors TDH license
4. ✓ Name and address of the facility
5. N/A Statement of building records were used in the inspection and if not, why?
6. N/A Date of construction and last renovation (if any) of the building.
7. ✓ Cover letter (in report) certain executive summary or executive summary begin the report format
8. ✓ List of areas that were not inspected. Explain.
9. ✓ Procedures and protocols used to collect bulk samples.
10. N/A List of measures taken to prevent potential fiber release form locations where samples were extracted
11. ✓ Drawings and/or photographs with sample locations marked to facilitate future location of materials sampled.
12. ✓ Statement...if an accredited (NVLAP) laboratory was used for Sample Analysis.
13. ✓ Copy of the laboratory accreditation certificate.
14. ✓ Copy of the laboratory analysis results of the bulk samples.
15. ✓ Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.
16. ✓ Copy of the chain of custody form for the bulk samples.
17. ✓ List of materials assumed to be containing asbestos.
18. ✓ City of Houston Asbestos Hazard Categorization (AHC) list and categorization of all the samples according to the AHC list included in the report.
19. N/A Condition of the building structure such as deterioration, structural problems, or other damages.

If Asbestos Present:

20. N/A Statement...if repeat analysis using point counting PLM was done as required by the city for the samples that show less than 5% asbestos.
21. N/A Photographs of all Materials proven to be ACM are included.
22. N/A All asbestos containing materials are classified as Friable or Non-Friable.
23. N/A Recommendations are made for all Asbestos Containing Materials.
24. N/A Reasonably accurate quantities of ACM's are estimated and given in the report.
25. N/A Cost estimations are given for abatement.
26. N/A Operation and Maintenance Plans are recommended.

**APPENDIX A
FACILITY LOCATION MAP**



CITY OF HOUSTON
WATER FACILITY
WEST HOUSTON #3 PLANT
14925 SOUTH RICHMOND
EMERGENCY **832-395-6047**

**NO
TRESPASSING
VIOLATORS
WILL BE
PROSECUTED**



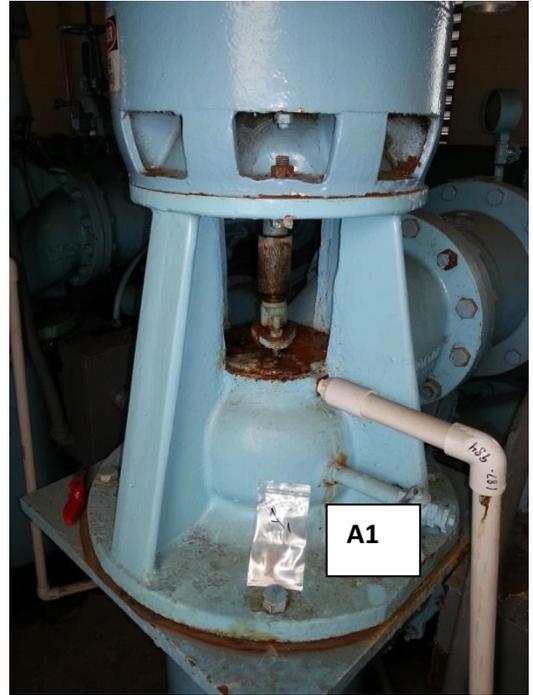
Views of Control Building



APPENDIX B
SITE PHOTOGRAPHS



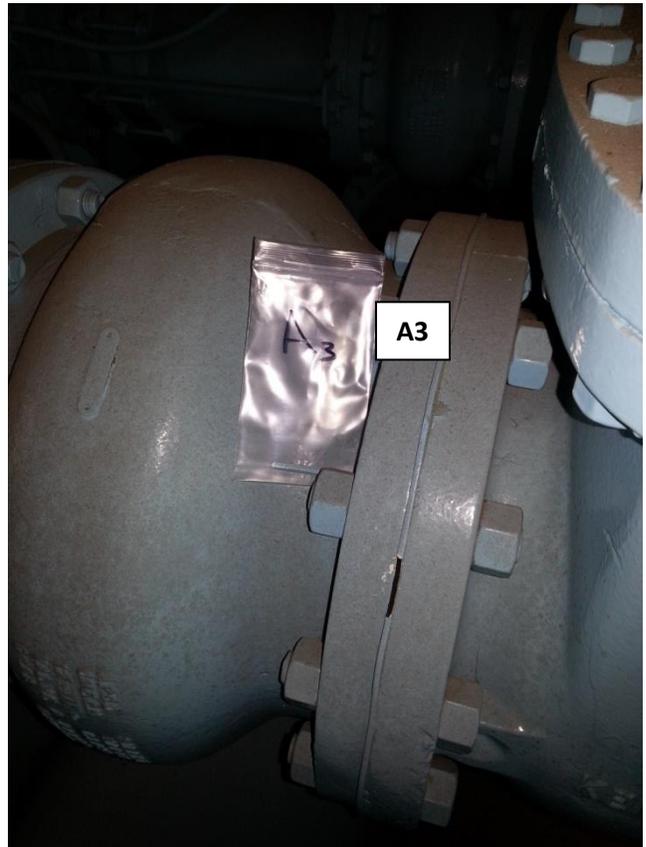
Full view of entire pump system



gasket at centrifuge pump #1 base



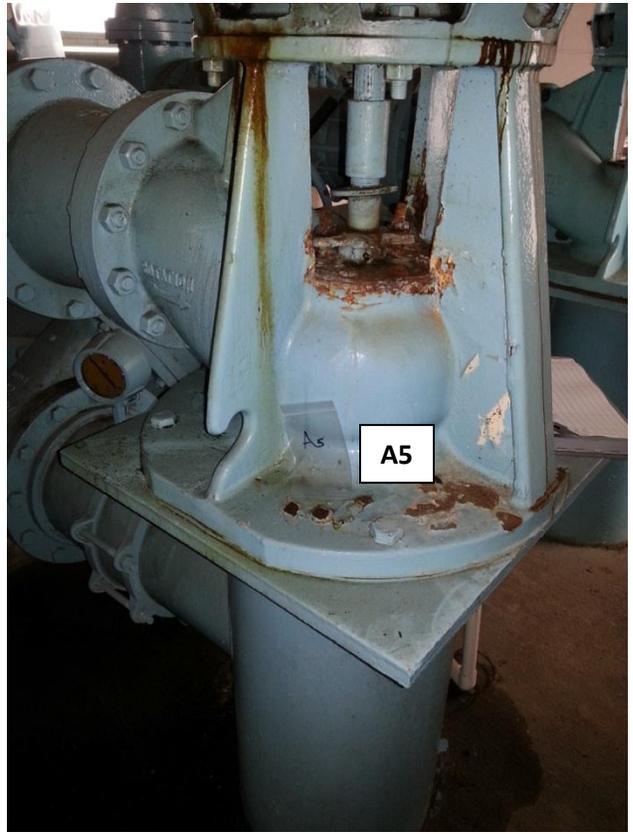
Gasket at horizontal flange pump system #1



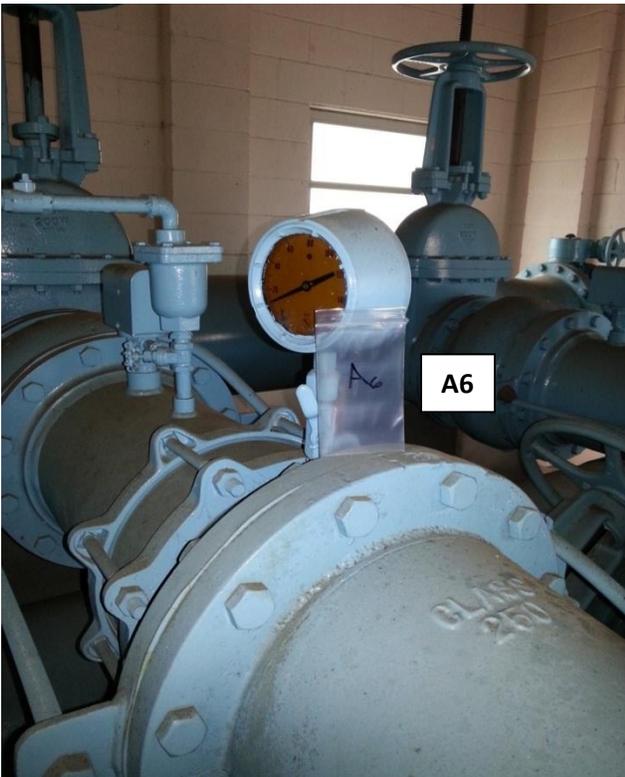
Gasket at flange wing valve pump #1



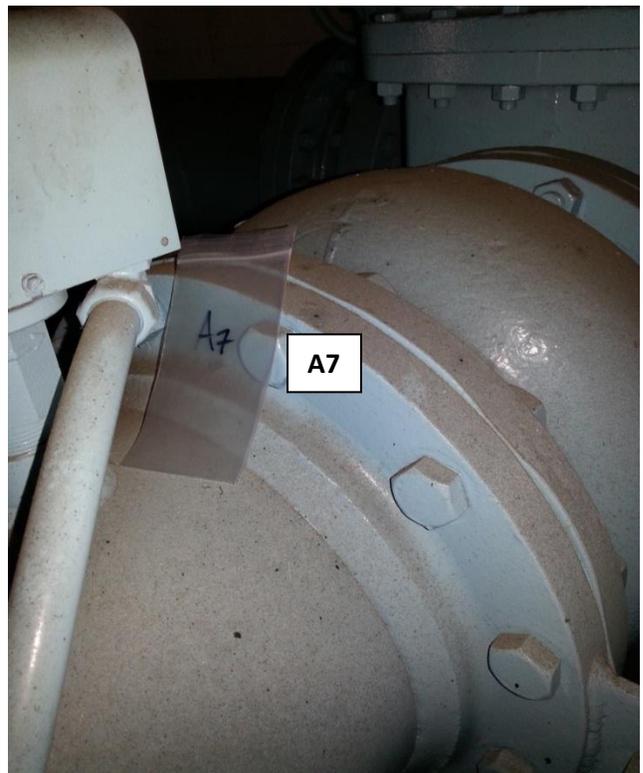
Gasket at flange pressure valve pump #1



gasket at centrifuge pump #2 base



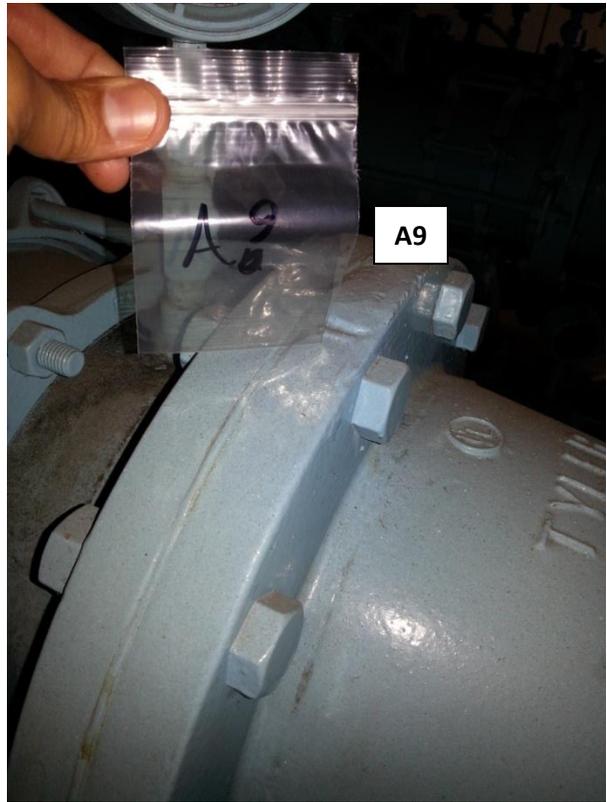
Gasket at horizontal flange pump system #2



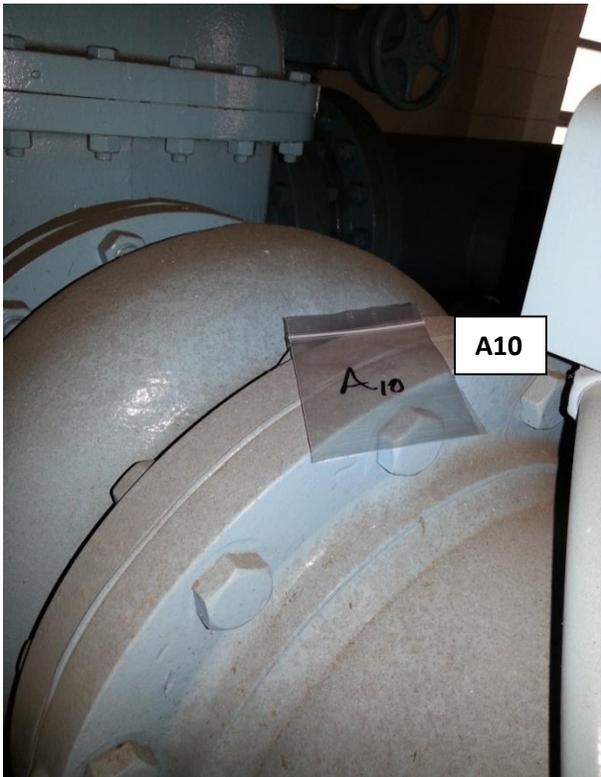
Gasket at flange wing valve pump #2



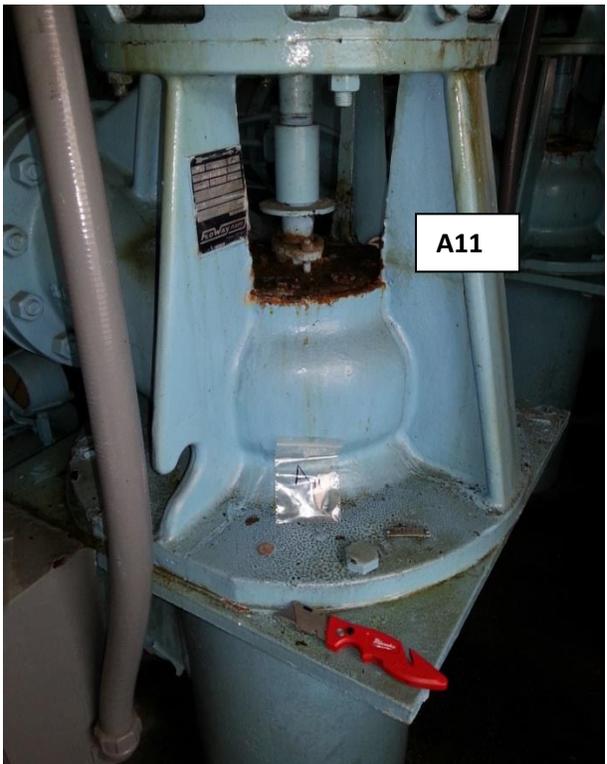
gasket at centrifuge pump #3 base



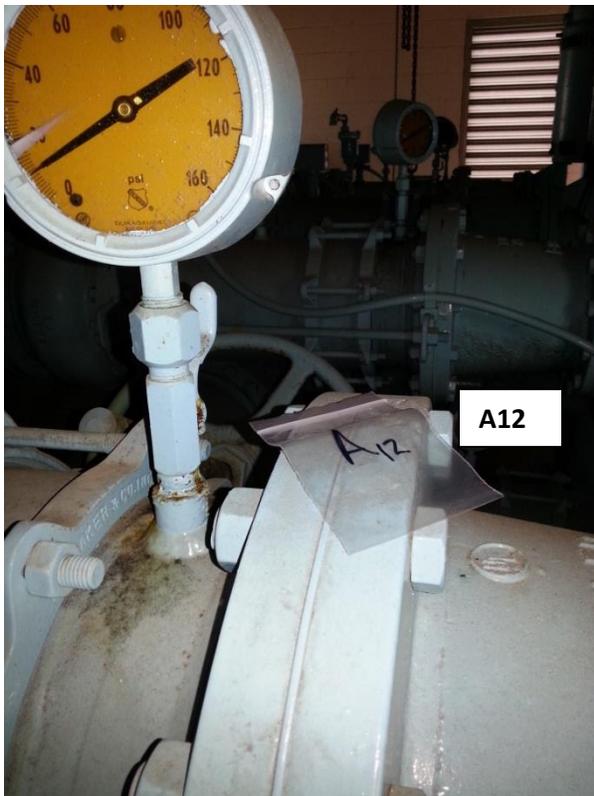
Gasket at horizontal flange pump system #3



Gasket at flange wing valve pump #3



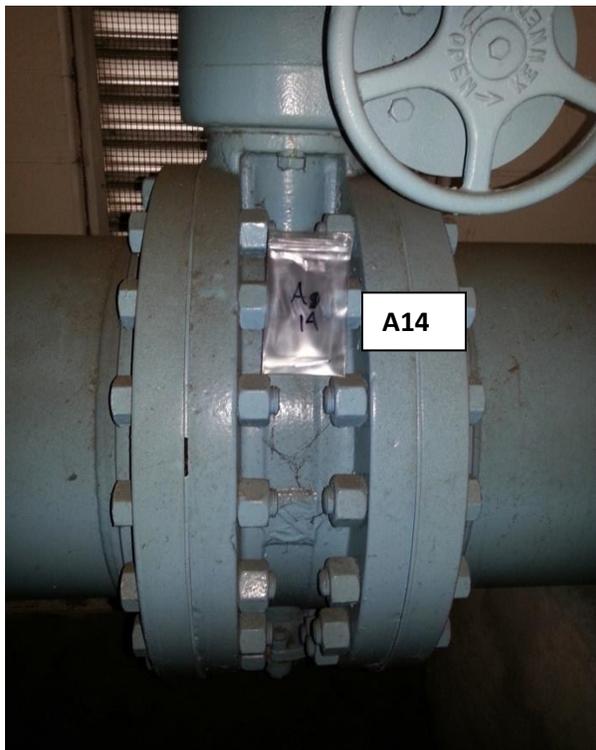
gasket at centrifuge pump #4 base



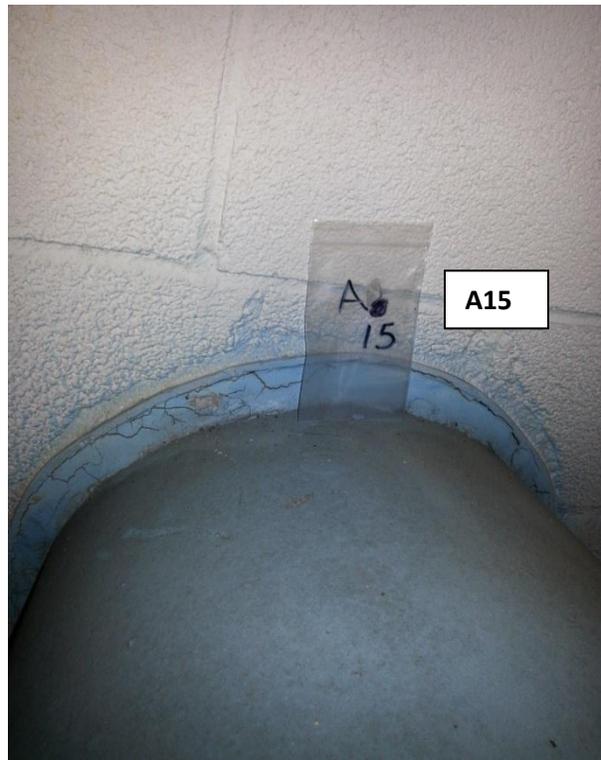
Gasket at horizontal flange pump system #4



Gasket at flange wing valve pump #4



Gasket at double flange horizontal inlet line pump #4



Wall - pipe sealant first stage inlet line east end



Expansion joint restroom outside wall



Expansion joint restroom base of foundation

APPENDIX C
ASBESTOS ANALYTICAL RESULTS

J3 Resources, Inc.
 6110 W. 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 - Fax: (713) 290-0248
 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

Tyrone Dorian
 ECMS, Inc.
 4911 Lyons Avenue
 Houston TX 77020

J3 Order #: JH1562028
 Project #: PKG. B-3817C
 Date Received: 06-Jan-2015
 Date Analyzed: 07-Jan-2015
 Date Reported: 08-Jan-2015

Water Plant Upgrades - West Houston #3

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents
A1	Flooring, Red, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A2	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A3	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A4	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A5	Paint/ Vinyl Material, Blue/ Red, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A6	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A7	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A8	Paint/ Vinyl Material, Blue/ Red, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A9	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A10	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A11	Paint/ Vinyl Material, Blue/ Red, Homogeneous	None Detected	Other Non-Fibrous Material 100%
A12	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material 100%


 Wanda Porch Analyst


 Lee W. Poye Lab Director

This report relates only to the materials tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by J3 Resources, Inc. (J3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. J3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273 Page 1 of 2

J3 Resources, Inc.
 6110 W. 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 - Fax: (713) 290-0248
 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

Tyrone Dorian
 ECMS, Inc.
 4911 Lyons Avenue
 Houston TX 77020

J3 Order #: JH1562028
 Project #: PKG. B-3817C
 Date Received: 06-Jan-2015
 Date Analyzed: 07-Jan-2015
 Date Reported: 08-Jan-2015

Water Plant Upgrades - West Houston #3

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
A13	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A14	Paint/ Vinyl Material, Blue/ Black, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A15	Paint/ Caulk, Blue/ Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A16	Caulk, Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%
A17	Paint/ Caulk, Blue/ Gray, Homogeneous	None Detected	Other Non-Fibrous Material	100%


 Wanda Porch Analyst


 Lee W. Poye Lab Director

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NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273

ECMS Project # 2917

IH CHAIN OF CUSTODY

J3 Resources (Lab use only)
2018



Submitter Name: _____ Company: _____ Address: _____ City/State: _____ Zip: _____		Bill to: _____ Address: _____ City/State: _____ Zip: _____ PO #: _____	
Project Information			
Project Name: <i>Water Plant Upgrades</i> Project #: <i>PKG. B</i>		Project Manager: _____ Notification By: Email: <input type="checkbox"/> Verbal: <input type="checkbox"/> Text: <input type="checkbox"/>	
Email Report To: _____		Email Invoice To: _____	
Special Instructions: _____			
Turnaround Times – Please Select One			
Emergency* <input type="checkbox"/>		1 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>
		3 Day <input type="checkbox"/>	5 Day <input checked="" type="checkbox"/>
ASBESTOS			
PLM - Bulk EPA 600/R-93/116 <input checked="" type="checkbox"/> Visual Estimation (<1%) <input type="checkbox"/> 400 Point Count 0.25% <input type="checkbox"/> 1,000 Point Count 0.1% <input type="checkbox"/> Gravimetric Reduction <input type="checkbox"/> Matrix Reduction (+/-) <input type="checkbox"/> NIOSH 9002 <input type="checkbox"/> OSHA ID-191	PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> ASTM D7201 <input type="checkbox"/> ISO 8672 <input type="checkbox"/> OSHA ID-160	TEM - Air <input type="checkbox"/> AHERA <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> ASTM D6281 <input type="checkbox"/> ISO 10312 <input type="checkbox"/> ISO 13794	TEM - Bulk <input type="checkbox"/> Gravimetric Reduction (<1%) <input type="checkbox"/> Matrix Reduction (+/-) <input type="checkbox"/> Qualitative (+/-) <input type="checkbox"/> Drop Mount <input type="checkbox"/> Filtration
		TEM - Water <input type="checkbox"/> EPA 100.2 Drinking Water <input type="checkbox"/> >10 µm fibers <input type="checkbox"/> ≥0.5 µm fibers <input type="checkbox"/> EPA 100.2 Effluent / WW	TEM - Dust <input type="checkbox"/> ASTM D5755 Microvac <input type="checkbox"/> ASTM D6480 Wipe <input type="checkbox"/> 600/J-93/167 Carpet - EPA <input type="checkbox"/> Bulk Dust Qualitative
			TEM/PLM Soil/Vermiculite/Ore <input type="checkbox"/> ASTM 7521-TEM (+/-) <input type="checkbox"/> ASTM 5721-TEM (<1%) <input type="checkbox"/> CARB 435-Modified <input type="checkbox"/> Soil - PLM Only (+/-) <input type="checkbox"/> Vermiculite - TEM (+/-) <input type="checkbox"/> Vermiculite-Cincinnati <input type="checkbox"/> Erionite ID
METALS			PARTICULATES
Flame AA <input type="checkbox"/> Lead in Paint – SW846 7420/3050B <input type="checkbox"/> Lead in Air – NIOSH 7082 <input type="checkbox"/> Lead in Wipes – SW846 7420/3050B <input type="checkbox"/> Lead in Soil – SW846 7420/3050B	Graphite Furnace AA - LEAD <input type="checkbox"/> Drinking Water – EPA 200.9 <input type="checkbox"/> Wastewater – SW846-7421 <input type="checkbox"/> Soil/Sludge – SW846-7421 <input type="checkbox"/> Air – NIOSH 7105	ICP <input type="checkbox"/> Elements in Air – NIOSH 7300 <input type="checkbox"/> Wipe/Soil – SW846-6010B <input type="checkbox"/> Effluent – SW846-6010B <input type="checkbox"/> Welding Fume – NIOSH 7300M <input type="checkbox"/> TCLP – SW846-1311/6010B	Gravimetric <input type="checkbox"/> NIOSH 0500 – Total Particulates <input type="checkbox"/> NIOSH 0600 – Respirable Particulates
Total Number of Samples Submitted: _____		Positive Stop: <input type="checkbox"/> YES <input type="checkbox"/> NO	
Signatures			
Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____		Date: <i>1/5/15</i> Time: _____ Date: <i>1/5/15</i> Time: _____ Date: _____ Time: _____ Date: _____ Time: _____	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate.
 **TAT's are in Business Days rather than Hours (i.e. 1 Day TAT = End of Next Business Day)

1/2

IH CHAIN OF CUSTODY

Project Name/Number Water Plant Upgrades Pk. B

Page 2 of 2

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME
A1	Sharpstown #1 site	3817A
A14	Sharpstown #1 site	3817A
A1	District III #2	3817E
A9	District III #2	3817E
A1	West Houston #3	3817C
A16	West Houston #3	
A1	TANK TEN CENTRAL	3817D
A12	TANK TEN CENTRAL	

Comments/Special Instructions: A total of 51 samples

APPENDIX D
LICENSE AND CERTIFICATION



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

ENVIRONMENTAL CONSULTANT AND MANAGEMENT SERVICES

is certified to perform as a

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

A handwritten signature in black ink, appearing to read "David Lahey, M.D.".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100476

Expiration Date: 1/11/2016

Control Number: 96664

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



**Texas Department of
State Health Services**

Asbestos Individual Consultant

TYRONE P DORIAN
License No. 105313
Control No. 96734
Expiration Date: 10/1/2016



NATEC
OF TEXAS, INC.
www.natectx.com



Tyrone P. Dorian
Name
NPDR091614-7338
Certification #
Asbestos Project Designer Refresher
Approved Course
9/16/2014 9/16/2015 TX 10168136
Course Date Expiration Date DL#

NATEC
OF TEXAS, INC.
www.natectx.com



Tyrone P. Dorian
Name
NMPR091714-7388
Certification #
Asbestos Management Planner Refresher
Approved Course
9/17/2014 9/17/2015 TX 10168136
Course Date Expiration Date DL#

NATEC
OF TEXAS, INC.
www.natectx.com



Tyrone P. Dorian
Name
NIR082114-7388
Certification #
Asbestos Inspector Refresher
Approved Course
8/21/14 8/21/2015 TX 10168136
Course Date Expiration Date DL#

NATEC
OF TEXAS, INC.
www.natectx.com



Tyrone P. Dorian
Name
NR082114-7388
Certification #
Air Monitoring Technician Refresher
Approved Course
8/21/2014 8/21/2015 TX 10168136
Course Date Expiration Date DL#

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200525-0

J3 Resources, Inc.
Houston, TX

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2014-04-01 through 2015-03-31

Effective dates



A handwritten signature in black ink, appearing to read "William R. M. L. D.", is written over a horizontal line.

For the National Institute of Standards and Technology



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

J3 RESOURCES INC

is certified to perform as a

**Asbestos Laboratory
PCM, PLM, TEM**

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

A handwritten signature in cursive script, reading "David Lahey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 300273

Expiration Date: 3/15/2016

Control Number: 95940

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

J3 Resources, Inc.

6110 West 34th Street, Houston, TX 77092

Laboratory ID: 157714

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 05/01/2016 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 05/01/2016 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 05/01/2016 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Gerald R. Schultz

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014

Date Issued: 07/29/2014