Environmental Consultants & Management Services

Asbestos Survey Report

Water Facility - Park Ten Central #1 & 2 Well
1300 Langum Creek
HOUSTON, TX

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

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 - Park Ten Central #1 & 2 Well

1300 Langum Creek
Houston, Tx.

WBS No. S-001000-0046-4
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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- Park Ten Central #1 & 2 Well
1300 Langum Creek
Houston, Tx.

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

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)

P.E., P.G.

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

4911 LYONS AVENUE HOUSTON, TX 77020 PHONE: 713 842-9896 FAX: 713 -667-0882
ECMSINC@ECMSTX.COM

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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-Park Ten Central #1 & 2 Well located at 1300 Langum Creek, Houston, TX. The Pump Station building is approximately 33'x30' located at the entrance of the property. The interior of the structure housed five (5) "booster pump system" 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 (drop 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:

Twelve (12) bulk material samples consisting of one wall caulking, seven flange gaskets and four centrifuge pump gaskets were taken of suspect asbestos-containing materials (ACM). All sample materials were in good condition. One sample collected from centrifuge pump assembly (sample A3) and one sample taken from wall caulking (sample A12) tested positive for asbestos content.

Recommendations:

Based on the analytical findings and site observation; No action necessary unless renovation, remodeling, or demolition is planned. (City of Houston Hazard Category C-3)

Cost Estimate:

Eight linear feet of gasket and caulking material - $200.00

COMPREHENSIVE ASBESTOS SURVEY

Environmental Consultants & Management Services, Inc. (ECMS) has completed an asbestos survey at the Water Facility - Park Ten Central #1 & 2 Well Pump Station located at 1300 Langum Creek in 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 33’x30’ located at the entrance of the property. The interior of the structure housed five (5) “booster pump system” 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 I% 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 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

Twelve (12) bulk material samples consisting of one wall caulking, seven flange gaskets and four centrifuge pump gaskets were taken of suspect asbestos-containing materials (ACM). All sample materials were in good condition. One sample collected from centrifuge pump assembly (sample A3) and one sample taken from wall caulking (sample A12) tested positive for asbestos content.

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	Gasket	BP#4 Centrifuge Pump Assembly	Non-friable	Fair Condition	C-3	55% Chrysotile
2	Glazing/Caulking	Inlet pipe of booster pumping systems #1	Non-Friable	Good Condition	C-3	3% Chrysotile
3	Flange Gaskets	Booster Pump Systems	Non-Friable	Good Condition	A	ND

Findings and Recommendations

Findings

Twelve (12) bulk material samples consisting of one wall caulking, seven flange gaskets and four centrifuge pump gaskets were taken of suspect asbestos-containing materials (ACM). All sample materials were in good condition. One sample collected from centrifuge pump assembly (sample A3) and one sample taken from wall caulking (sample A12) tested positive for asbestos content.

Recommendations

Based on the analytical findings and site observation; No action necessary unless renovation, remodeling, or demolition is planned. (City of Houston Hazard Category C-3)

Cost Estimate: Eight linear feet of gasket and caulking material - $200.00

CHECK LIST FOR ASBESTOS SURVEYS

NAME OF THE FACILITY: **Water Facility - Park Ten Central #1 & 2 Well**
FACILITY ADDRESS: **1300 Langum Creek, 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.	✓	Photographs of all Materials proven to be ACM are included.
22.	✓	All asbestos containing materials are classified as Friable or Non-Friable.
23.	✓	Recommendations are made for all Asbestos Containing Materials.
24.	✓	Reasonably accurate quantities of ACM's are estimated and given in the report.
25.	✓	Cost estimations are given for abatement.
26.	N/A	Operation and Maintenance Plans are recommended.

APPENDIX A
FACILITY LOCATION

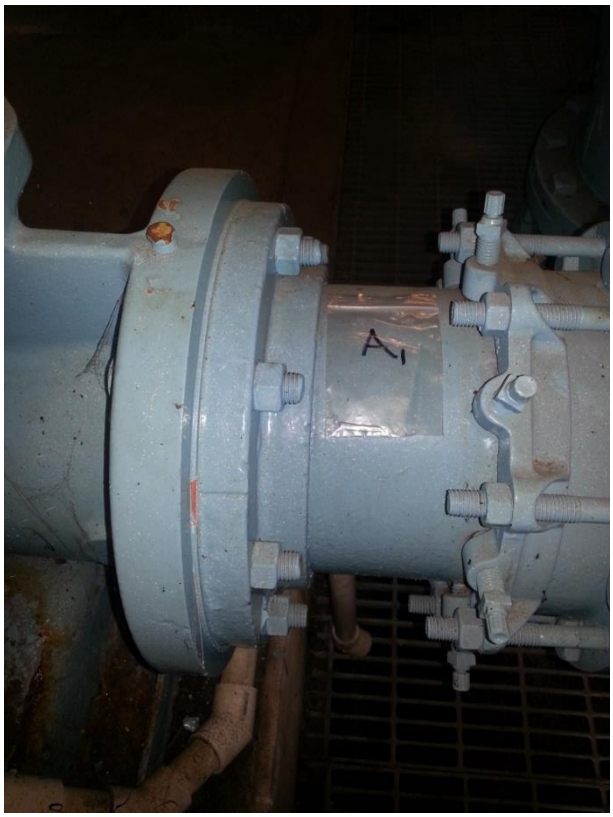
NO
MPING
CITY OF HOUSTON
WATER FACILITY
PARK 10 CENTRAL #1 & #2 WELL
1300 LANGUM CREEK
EMERGENCY 832-395-6047
NO
TRESPASSING

Views of pumping station

APPENDIX B

SITE PHOTOGRAPHS

Full view of pumping system.



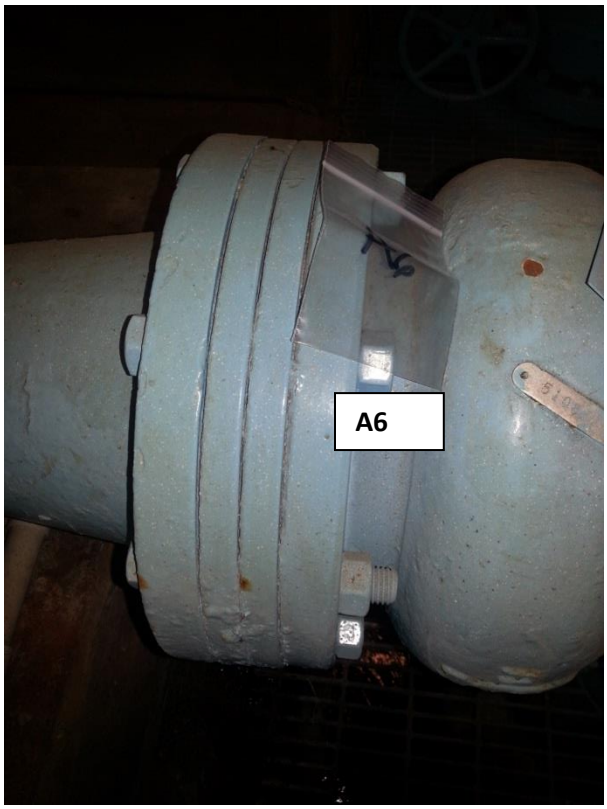
Medium Flange Gasket

Medium Flange – Valve Gasket

Flange at Centrifuge Base Plate

Seal at Motor Shaft

Medium Flange Gasket



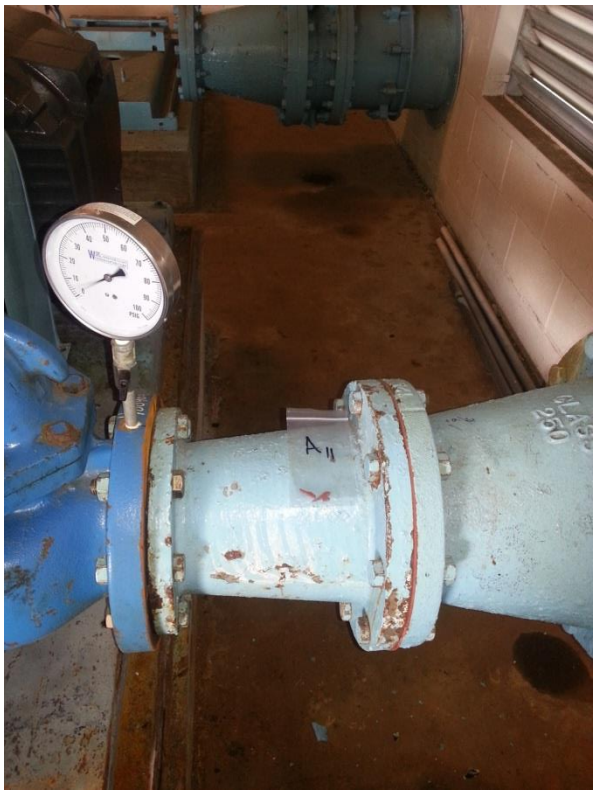
Flange Gasket

Gasket at Centrifuge Base Plate

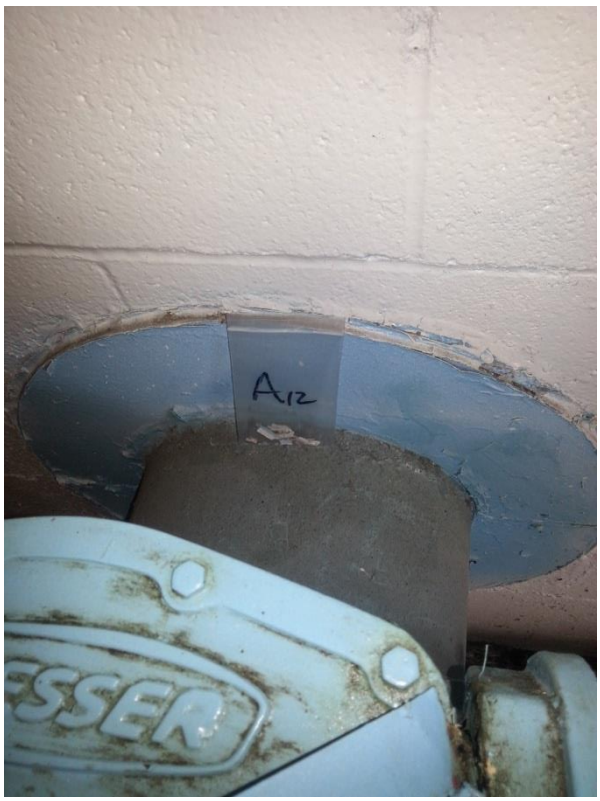
Medium Flange Gasket

Large Plate Gasket

Small Flange - Valve Gasket



Small Flange Gasket



Caulking at cement wall

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 #: JH1562029
Project #: PKG. B-3817D
Date Received: 06-Jan-2015
Date Analyzed: 07-Jan-2015
Date Reported: 07-Jan-2015

Water Plant Upgrades - Park Ten Central

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
A1	Paint/Vinyl Material, Blue/ Red, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A2	Paint/Vinyl Material, Blue/ Red, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A3	Paint/Vinyl Material, Blue/ Black, Homogeneous	Chrysotile	55%	Other Non-Fibrous Material	45%
A4	Paint/Vinyl Material, Blue/ Red, 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/ Red, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A7	Paint/Vinyl Material, Blue/ Red, 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/ Red, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A10	Vinyl Material, Red, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A11	Vinyl Material, Red, Homogeneous	None Detected		Other Non-Fibrous Material	100%
A12	Paint/Caulk, Blue/ Lt. Gray, Homogeneous	Chrysotile	3%	Other Non-Fibrous Material	97%

Duane Salinas 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

ECMS Project # 3817

IH CHAIN OF CUSTODY

Job Order # 2029 (Lab use only)

J3 resources, inc.

Submitter Name:	**Bill to:**
Company:	**Address:** ECMS, INC
Address: ECMS, INC	
	City/State: **Zip:**
City/State: **Zip:**	**PO #:**

Project Information

Project Name: WATER PLANT UPGRADES	Project Manager:
Project #: PKG. B	Notification By: Email: ☐ Verbal: ☐ Text: ☐
Email Report To:	Email Invoice To:
Special Instructions:	

Turnaround Times – Please Select One

Emergency* ☐	1 Day ☐	2 Day ☐	3 Day ☐	5 Day ☑

ASBESTOS

PLM - Bulk	PCM - Air	TEM - Air	TEM - Bulk	TEM - Water	TEM - Dust	TEM/PLM Soil/Vermiculite/Ore
EPA 600/R-93/116 ○ Visual Estimation (<1%) ○ 400 Point Count 0.25% ○ 1,000 Point Count 0.1% ○ Gravimetric Reduction ○ Matrix Reduction (+/-) ○ NIOSH 9002 ○ OSHA ID-191	○ NIOSH 7400 ○ ASTM D7201 ○ ISO 8672 ○ OSHA ID-160	○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	○ Gravimetric Reduction (<1%) ○ Matrix Reduction (+/-) ○ Qualitative (+/-) o Drop Mount o Filtration	○ EPA 100.2 Drinking Water o >10 µm fibers o ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW	○ ASTM D5755 Microvac ○ ASTM D6480 Wipe ○ 600/J-93/167 Carpet - EPA ○ Bulk Dust Qualitative	○ ASTM 7521-TEM (+/-) ○ ASTM 5721-TEM (<1%) ○ CARB 435-Modified ○ Soil – PLM Only (+/-) ○ Vermiculite - TEM (+/-) ○ Vermiculite-Cincinnati ○ Erionite ID

METALS			PARTICULATES
Flame AA	**Graphite Furnace AA - LEAD**	**ICP**	**Gravimetric**
○ Lead in Paint – SW846 7420/3050B ○ Lead in Air – NIOSH 7082 ○ Lead in Wipes – SW846 7420/3050B ○ Lead in Soil – SW846 7420/3050B	○ Drinking Water – EPA 200.9 ○ Wastewater – SW846-7421 ○ Soil/Sludge – SW846-7421 ○ Air – NIOSH 7105	○ Elements in Air – NIOSH 7300 ○ Wipe/Soil – SW846-6010B ○ Effluent – SW846-6010B ○ Welding Fume – NIOSH 7300M ○ TCLP – SW846-1311/6010B	○ NIOSH 0500 – Total Particulates ○ NIOSH 0600 – Respirable Particulates

Total Number of Samples Submitted:	**Positive Stop:** ☐ YES ☐ NO

Signatures

Relinquished By:	Date: 1/5/15	Time:	
Received By:	Date: 1/5/15	Time:	
Relinquished By:	Date:	Time:	
Received By:	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)*

J3 Resources, Inc. ◆ 6110 West 34th Street ◆ Houston, Texas 77092 ◆ tel: 713/290-0221 ◆ fax: 713/290-0248

IH CHAIN OF CUSTODY

Project Name/Number Water Plant Upgrades Pkg. 3 Page 2 of 2

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME
A1	Sharpstown #1 site	3817A
A14	Sharpstown #1 site	
A1	District III #2	3817B
A9	District III #2	
A1	West Houston #3	3817C
A16	West Houston #3	
A1	Park Ten Central	3817D
A12	Park Ten Central	

Comments/Special Instructions: A total of 51 samples

J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713/290-0221 • fax: 713/290-0248

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.

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

Course Date	Expiration Date	DL#
9/16/2014	9/16/2015	TX 10168136

NATEC OF TEXAS, INC.
www.natectx.com

Tyrone P. Dorian
Name
NMPR091714-7388
Certification #
Asbestos Management Planner Refresher
Approved Course

Course Date	Expiration Date	DL#
9/17/2014	9/17/2015	TX 10168136

NATEC OF TEXAS, INC.
www.natectx.com

Tyrone P. Dorian
Name
NIR082114-7388
Certification #
Asbestos Inspector Refresher
Approved Course

Course Date	Expiration Date	DL#
8/21/14	8/21/2015	TX 10168136

NATEC OF TEXAS, INC.
www.natectx.com

Tyrone P. Dorian
Name
NR082114-7388
Certification #
Air Monitoring Technician Refresher
Approved Course

Course Date	Expiration Date	DL#
8/21/2014	8/21/2015	TX 10168136

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

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

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

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.

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

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 05/01/2016
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: 05/01/2016
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: 05/01/2016
☐	**FOOD**	Accreditation Expires:
☐	**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 Schultz, CIH
Chairperson, Analytical Accreditation Board

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

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