CITY OF HOUSTON

Public Works and Engineering Department

Interoffice

Correspondence

To: Ebi Nassiri, P.E.
Assistant Director
Engineering Branch
Engineering and Construction Division

From: Interim Managing Engineer
Geo-Environmental Services Branch
Engineering and Construction Division

Date: April 3, 2012

Attn: Melanie Baldwin, P.E.

Subject: **HARVEST MOON LIFT STATION**
709 Harvest Moon Lane
WBS NO. R-000267-0111-3

Attached are two copies of the asbestos and lead inspection reports for the subject property, prepared by Technology Serving People, Inc. (TSP), the City's consultant for the subject project. The consultant's findings and recommendations are summarized below:

ASBESTOS

Findings:

A total of three (3) bulk material samples of **red rubber flange gaskets** and were taken with suspect Asbestos Containing Materials (ACM). All samples were collected from areas within the subject property and analyzed for asbestos content (See Sections 2 through 4 of the asbestos survey report). Samples were analyzed by using Polarized Light Microscopy Method (PLM).

- Analytical results indicated that **no asbestos** content was detected from all samples collected. All samples were < 1% asbestos. (See Sections 2 and 4 of the asbestos survey report).

Recommendations:

- During the lift station renovation/demolition activities, if gasket materials are discovered and they are not rubber gasket materials, they shall be sampled or assumed to be ACM.
- If the materials are assumed to be ACM, the general contractor should coordinate with an abatement contractor to schedule abatement activities. (See Section 2 of the asbestos survey report).

LEAD

Findings:

A total of five (5) paint chip samples were collected and analyzed for lead content (See Section 3 of the lead inspection report). These samples were analyzed by using the Flame AA Method.

- Analytical results for the:

  - **Green** paint on concrete cap had **no lead detected**;
  - **Yellow** paint on hand rail had **no lead detected**; and
  - **Gray** paint on piping/valve (dry well) had **no lead detected.**

  - **Gray** paint on exterior piping/valve had a lead content of **0.27% by weight**; and
  - **Red** paint on valve wheel had a lead content of **0.44% by weight.**
    These levels fall under the City of Houston's Hazard Category C-2 (Lead Present).

Recommendations:

- Recycle all metal components including those with lead containing paint. No abatement is required.

OSHA regulations apply to workers during demolition and/or renovation. For further details, refer to the lead inspection report for detailed findings and recommendations (See Sections 1 and 3 of the lead inspection report).

If you have any questions, please call me at 832-395-2262 or T.C. Nguyen at 832-395-2258

Mike Pezeshki, P.E.

TCN JC

MP:TCN:jc
Z:\constr\A-ENV-SB\Environmental\Abestos_&_Lead\A&L Assessments\2012\Harvest_Moon_LS.doc

Attachment: Two (2) Asbestos/Lead Inspection Reports

ec: Daniel R. Menendez, P.E.
Ravi Kaleyatodi, P.E., CPM

Technology Serving People, Inc. • Environmental Health & Engineering Services

Asbestos and Lead Survey
Harvest Moon Lift Station
709 Harvest Moon Lane
Houston, Texas

WBS No. R-000019-0047-4
S-000019-0047-4
Task No. 12-03

Prepared for:

The City of Houston Public Works
and Engineering Department
611 Walker, 14th Floor
Houston, Texas 77251-1562

Inspected:

February 23, 2012

Prepared By:

Technology Serving People, Inc.
2511 Willowick, Suite 229
Houston, Texas 77027

Submitted By:

Bruce D. Peters
Asbestos Consultant TDSHS No. 10-5336

Michael E. Solomon
Lead Inspector TDSHS No. 2060695

March 1, 2012

2511 Willowick, Suite 229 • Houston, Texas 77027 • (713) 781-9067 • FAX (713) 781-9094
E-mail: ericlebrocq@earthlink.net

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Section 6	Licenses and Accreditations
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Section 8	COH Asbestos and Lead Check List

Executive Summary

Technology Serving People, Inc. (TSP) conducted an asbestos and lead survey on February 23, 2012 on the Harvest Moon Lift Station, 709 Harvest Moon Lane, Houston, Texas. The lift station consists of two submersible pumps in the wet well and a dry well with the discharge piping and valves and a concrete top cap. The facility has fencing and is secured by a locked entry gate to the plant. There was no information available on the construction date of the plant station and no COH drawings were available at the time of the survey. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA), Texas Environmental Lead Reduction Rules (TELRR), and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the lift station were inspected.

EMSL Analytical of Houston, Texas, a State of Texas Licensed Asbestos Laboratory (PLM), and NVLAP Accredited and Accredited NELAP Lead Laboratory, performed the asbestos and lead analyses.

ASBESTOS SUMMARY

Findings:

Rubber flange gasket materials were determined to be non-asbestos-containing.

Recommendations:

Break all pipe flanges; abate any non-rubber gaskets by standard OSHA 1926.1101 methods, bag asbestos waste, and dispose of as asbestos-containing waste. The General Contractor should coordinate with the abatement contractor to schedule abatement activities, if non-rubber gaskets are discovered. The General Contractor may opt to cut out gaskets/flange areas and have the abatement contractor pick-up the pipe segments for disposal.

Cost:

We do not anticipate any asbestos abatement required for this site.

LEAD SUMMARY

Findings:

Five (5) lead paint chip samples were taken of painted materials and piping at the lift station to determine lead content.

The gray piping/valve paint and the red valve wheel paint were determined to be lead based paints. OSHA regulations apply to workers during demolition or renovation of these materials.

Recommendations:
The waste water treatment plant is scheduled for renovation. Recycle all metal components including those with lead containing paint.

OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) does not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

Any paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
2. Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.
3. Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.
4. Demolished concrete structures with lead-containing paint should be tested by the TCLP method, as required by the U.S. Environmental Protection Agency (EPA), to characterize the waste for disposal.

Cost:

No lead abatement costs associated with this lift station.

Technology Serving People, Inc.

Asbestos Survey Report
Harvest Moon Lift Station
709 Harvest Moon Lane, Houston, Texas

Technology Serving People, Inc. (TSP) conducted an asbestos survey on February 23, 2012 on the Harvest Moon Lift Station, 709 Harvest Moon Lane, Houston, Texas. The lift station consists of two submersible pumps in the wet well and a dry well with the discharge piping and valves and a concrete top cap. The facility has fencing and is secured by a locked entry gate to the plant. There was no information available on the construction date of the plant station and no COH drawings were available at the time of the survey. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA), and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the lift station were inspected.

EMSL Analytical of Houston, Texas, a State of Texas Licensed Asbestos Laboratory (PLM), performed the asbestos analyses.

Suspect materials sampled were accessible flange gaskets.

Findings:

Rubber flange gasket materials were determined to be non-asbestos-containing.

Recommendations:

Break all pipe flanges; abate any non-rubber gaskets by standard OSHA 1926.1101 methods, bag asbestos waste, and dispose of as asbestos-containing waste. The General Contractor should coordinate with the abatement contractor to schedule abatement activities, if non-rubber gaskets are discovered. The General Contractor may opt to cut out gaskets/flange areas and have the abatement contractor pick-up the pipe segments for disposal.

Cost:

We do not anticipate any asbestos abatement required for this site.

Technology Serving People, Inc.

Lead Survey Report
Harvest Moon Lift Station
709 Harvest Moon Lane, Houston, Texas

Technology Serving People, Inc. (TSP) conducted a lead survey on February 23, 2012 on the Harvest Moon Lift Station, 709 Harvest Moon Lane, Houston, Texas. The lift station consists of two submersible pumps in the wet well and a dry well with the discharge piping and valves and a concrete top cap. The facility has fencing and is secured by a locked entry gate to the plant. There was no information available on the construction date of the plant station and no COH drawings were available at the time of the survey. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA), Texas Environmental Lead Reduction Rules (TELRR), and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the lift station were inspected.

EMSL Analytical of Houston, Texas, an Accredited NELAP Lead Laboratory, performed the lead analyses.

All samples were collected in a manner that reduced potential for dust release and exposure, using wet sampling methods and personal protective equipment, where necessary. Sampling equipment was wet wiped and decontaminated after each use to prevent cross-contamination of the samples.

Findings:

Five (5) lead paint chip samples were taken of painted materials and piping at the lift station to determine lead content.

Green on concrete cap had no detectable lead. The paint is in general good condition. OSHA regulations do not apply to workers during demolition or renovation.

Gray paint on exterior piping and valves had no a lead level of 2700 ppm and is lead based paint. The paint is in general good condition. OSHA regulations apply to workers during demolition or renovation.

Yellow paint of hand rail had no detectable lead. The paint is in general good condition. OSHA regulations do not apply to workers during demolition or renovation.

Red paint on valve wheel had a lead level of 4400 ppm and is a lead based paint. The paint is in general good condition. OSHA regulations do not apply to workers during demolition or renovation.

Gray paint of piping and valves in the dry well had no detectable lead. The paint is in general good condition. OSHA regulations do not apply to workers during demolition or renovation.

Recommendations:
The waste water treatment plant is scheduled for renovation. Recycle all metal components including those with lead containing paint.

OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) does not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

Any paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
2. Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.
3. Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.
4. Demolished concrete structures with lead-containing paint should be tested by the TCLP method, as required by the U.S. Environmental Protection Agency (EPA), to characterize the waste for disposal.

Cost:

No lead abatement costs associated with this lift station.

151200899

4

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 151200899

EMSL ANALYTICAL, INC.
8700 JAMEEL RD, #190
HOUSTON, TX 77040
PHONE: (713) 686-3635
FAX: (713) 686-3645

Company: Technology Serving People, Inc.
Street: 2511 Willowick #229
City: Houston State/Province: TX
Report To (Name): Bruce Petens
Telephone #: 713-398-8400
Project Name/Number: 709 Harvest Moon COHPWE Lift Station
Please Provide Results: ☐ Fax ☑ Email Purchase Order:

EMSL-Bill to: ☑ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party
Zip/Postal Code: 77027 Country: USA
Fax #:
Email Address: On file
U.S. State Samples Taken: TX

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☑ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☑ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ EPA Protocol (Semi-Quantitative)
☐ EPA Protocol (Quantitative)

Other:
☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Bruce Petens
Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
709-01	Red Rubber Gasket		
709-02	Red Rubber Gasket		
709-03	Red Rubber Flange Gasket		

Client Sample # (s): 709-01 - 709-03 Total # of Samples: 3
Relinquished (Client): Date: 2/23/12 Time: 1500
Received (Lab): M Leggett Date: 2/23/12 Time: 3:25 pm
Comments/Special Instructions: WI

EMSL Analytical, Inc.
8700 Jameel Road, Suite 190, Houston, TX 77040
Phone/Fax: (713) 686-3635 / (713) 686-3645
http://www.emsl.com houstonlab@emsl.com

EMSL Order:	151200899
CustomerID:	TESP50
CustomerPO:	
ProjectID:	

Attn: **Bruce Peters**
TSP, Inc.
2511 Willowick #229
Houston, TX 77027

Phone:	(713) 781-9067
Fax:	(713) 781-9094
Received:	02/23/12 3:25 PM
Analysis Date:	2/28/2012
Collected:	2/23/2012

Project: **709 Harvest Moon, COHPWE Lift Station**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
709-01 *151200899-0001*		Gray/Red Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
709-02 *151200899-0002*		Gray/Red Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis		
709-03 *151200899-0003*		Gray/Red Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis		

Analyst(s)

Jenny Drapela (2)
Michelle Leggett (1)

Michelle Leggett, Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.
Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from 02/28/2012 10:00:20

THIS IS THE LAST PAGE OF THE REPORT.

161203039

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 161203039

EMSL ANALYTICAL, INC.
2001 EAST 52ND STREET
INDIANAPOLIS, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Technology Serving People, Inc.
Street: 2511 Willowick #229
City: Houston, State/Province: TX
Report To (Name): Bruce Peters
Telephone #: 713-398-8400
Project Name/Number: 709 Harvest Moon, COHPWE Lift Station

EMSL-Bill to: ☑ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party
Zip/Postal Code: 77027 Country: USA
Fax #:
Email Address: On file
Please Provide Results: ☐ Fax ☑ Email Purchase Order: U.S. State Samples Taken: TX

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☑ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ mg/cm² ☑ % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	☑
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter	☐
Wipe* ☐ ASTM ☐ non ASTM *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	0.5 µg/wipe	☐
TCLP	SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	☐
Wastewater	SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	☐
Drinking Water	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐

Other: Preservation Method (Water):
Name of Sampler: Michael Solomon Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
709-Pb-01	Green Paint on Concrete Pad		
709-Pb-02	Grey Paint on Exterior Piping		
709-Pb-03	Yellow Paint on Handpole		
709-Pb-04	Red Handle Paint on Valve		
709-Pb-05	Grey Paint on Pipe/Valve - Dry Well		

Client Sample #'s: 709-Pb-01 thru 709-Pb-05 Total # of Samples: 5
Relinquished (Client): Date: 2/23/12 Time: 1500
Received (Lab): Date: 2/23/12 Time: 1500
Comments:

2/24/12 9:20

EMSL Analytical, Inc.
2001 East 52nd St., Indianapolis, IN 46205
Phone: (317) 803-2997 Fax: (317) 803-3047 Email: indianapolislab@emsl.com

Attn: **Bruce Peters**
TSP, Inc.
2511 Willowick #229
Houston, TX 77027

Fax: (713) 781-9094 Phone: (713) 781-9067
Project: **709 HARVEST MOON, COHPWE LIFT STATION**

Customer ID: TESP50
Customer PO:
Received: 02/24/12 9:20 AM
EMSL Order: 161203039

EMSL Proj:

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	*Analyzed*	*RDL*	*Lead Concentration*	*Notes*
0001	2/27/2012	0.010 % wt	<0.010 % wt	
Client Sample 709-Pb-01				*Collected:*
0002	2/27/2012	0.010 % wt	0.27 % wt	
Client Sample 709-Pb-02				*Collected:*
0003	2/27/2012	0.010 % wt	<0.010 % wt	
Client Sample 709-Pb-03				*Collected:*
0004	2/27/2012	0.012 % wt	0.44 % wt	
Client Sample 709-Pb-04				*Collected:*
05	2/27/2012	0.010 % wt	<0.010 % wt	
Client Sample 709-Pb-05				*Collected:*

Initial report from 02/29/2012 07:54:06

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainly is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC–ELLAP 157245, OH E10040

Top of Lift Station

Dry Well Piping and Valves

Red Rubber Gasket (709-01) ND

Red Rubber Gasket (709-02) ND

Red Rubber Gasket (709-03) ND

Green Paint Concrete Cap (709-Pb-01) ND

Gray Paint On Piping (709-Pb-02) 2700 ppm

Yellow Handrail Paint (709-Pb-03) ND

Red Paint on Valve Wheel (709-Pb-04) 4400 ppm

Gray Paint on Piping & Valves (709-Pb-05) ND

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

TECHNOLOGY SERVING PEOPLE INC

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: 100035

Control Number: 96386

Expiration Date: 2/3/2013

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

TECHNOLOGY SERVING PEOPLE INC

is certified to perform as a

Lead Firm

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

David L. Lakey, M.D.
Commissioner of Health

License Number: 2110316

Control Number 6218

Expiration Date: 3/30/2012

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

Texas Department of State Health Services

Asbestos Individual Consultant

BRUCE D PETERS

License No. 105336

Control No. 96001

Expiration Date: 7/31/2012

Texas Department of State Health Services

Asbestos Inspector

MICHAEL E SOLOMON

License No. 602465

Control No. 96786

Expiration Date: 9/16/2013

Texas Department of State Health Services

Asbestos Project Manager

MICHAEL E SOLOMON

License No. 501049

Control No. 96425

Expiration Date: 9/17/2013

Department of State Health Services certifies that

MICHAEL E SOLOMON

is certified as a

Lead Inspector

Certification No: 2060695

Control No: 6175

Expires: 10/18/2013

David L. Lakey, M.D.
Commissioner of Health

Texas Department of State Health Services

Asbestos Air Monitoring Technician

MICHAEL E SOLOMON

License No. 706184

Control No. 96256

Expiration Date: 9/2/2012

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

EMSL ANALYTICAL 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: 300159

Control Number: 95729

Expiration Date: 7/11/2013

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102106-0

EMSL Analytical, 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).

2011-07-01 through 2012-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
8700 Jameel Road, Suite 190
Houston, TX 77040
Ms. Melanie Rech
Phone: 713-686-3635 Fax: 713-686-3645
E-Mail: mrech@emsl.com
URL: http://www/emsl.com/

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 102106-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2011-07-01 through 2012-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01S (REV. 2006-05-19)

AIHA

Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

2001 East 52nd Street, Indianapolis, IN 46205

Laboratory ID: 157245

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: 02/01/2013
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: 02/01/2013
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: 02/01/2013
☐	**FOOD**	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.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 10: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 02/01/2011

AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
2001 East 52nd Street, Indianapolis, IN 46205

Laboratory ID: 157245
Issue Date: 02/01/2011

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 09/01/2002

Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Airborne Dust	NIOSH 7082	
Paint	EPA SW-846 3050B	
	EPA SW-846 7420	
Settled Dust by Wipe	EPA SW-846 3050B	
	EPA SW-846 7420	
Soil	EPA SW-846 3050B	
	EPA SW-846 7420	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- √ Paint
- √ Soil
- √ Settled Dust by Wipe
- √ Airborne Dust

Asbestos Hazards Characterization (AHC) List
Harvest Moon Lift Station
709 Harvest Moon Lane, Houston, Texas

Sample/Material	Asbestos Content	AHC
709-01 (Gasket)	ND	A- No Asbestos Found
709-02 (Gasket)	ND	A- No Asbestos Found
709-03 (Gasket)	ND	A- No Asbestos Found

Lead Hazards Characterization (LHC) List
Harvest Moon Lift Station
709 Harvest Moon Lane, Houston, Texas

Sample/Material	Lead Content	LHC
709-PB-01 (Green on Concrete Pad)	<0.010 % wt (Below Detection Limit)	A- Allowable Lead
709-PB-02 (Gray on Ext. Pipes & Valves)	2700 ppm	C2- Lead Present
709-PB-03 (Yellow on Hand Rail)	<0.010 % wt (Below Detection Limit)	A- Allowable Lead
709-PB-04 (Red on Valve Wheel)	4400 ppm	C2- Lead Present
709-PB-05 (Gray on Motors)	<0.010 % wt (Below Detection Limit)	A- Allowable Lead
709-PB-06 (Gray on Piping/Valves)	<0.010 % wt (Below Detection Limit)	A- Allowable Lead

CHECK LIST FOR ASBESTOS SURVEYS

NAME OF THE FACILITY: HARVEST MOON L.S.

FACILITY ADDRESS: 709 HARVEST MOON LANE

DATE OF SURVEY: 2-23-12 CONSULTANT: TECHNOLOGY SERVICE PEAK, INC.

INSPECTOR(S) NAME: BRUCE PETERS

Note: Items/information listed below must be included in the report. Use this check list 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 surveys 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 Inspector(s) TDH License.
4. ✓ Name and Address of the building.
5. ✓ Statement...if building records were used in the inspection and if not, Why?
6. ✓ Date of construction and last renovation (if any) of the building.
7. ✓ Cover letter (in report) contain 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. ✓ List of measures taken to prevent potential fiber release from locations where samples were extracted.
11. ✓ Drawings and 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. ✓ Condition of the building structure such as deterioration, structural problems, or other damages.

If Asbestos Present:

20. NA Statement...if repeat analysis using point counting with PLM was done as required by the city for

ASBESTOS CHECKLIST

21. ✓ Photographs of all Materials proven to be ACM are included.

23. ✓ All asbestos containing materials are classified as Friable or Non-Friable.

24. ✓ Recommendations are made for all Asbestos Containing Materials.

25. ✓ Reasonably accurate quantities of ACM's are estimated and given in the report.

26. ✓ Cost estimations are given for abatement.

27. NA Operation and Maintenance Plans are recommended.

Signed: Bruce Peters

Name: BRUCE PETERS

Title: ASBESTOS CONSULTANT

CHECK LIST FOR LEAD SURVEYS

NAME OF THE FACILITY: HARVEST MOON L.S.

FACILITY ADDRESS: 709 HARVEST MOON LANE

DATE OF THE SURVEY: 2-23-12 CONSULTANT: TECHNOLOGY SERVING PEOPLE, INC.

INSPECTOR(S) NAME: MIKE SOLOMON

Note: Items/information listed below must be included in the report. Use this check list 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 lead and asbestos, the survey reports shall be segregated in one binder or preferably two separate reports.

1. NA Statement... if "HUD Guidelines for Evaluation and Control of Lead Based Paint in Housing" or any other criteria was followed for the survey.

2. ✓ Date and Contract number of the survey.

3. ✓ Scope of the work.

4. ✓ Copy of the Inspector (s) TDH Certificate.

5. ✓ Name and Address of the building.

6. ✓ Statement... if building records were used in the inspection, and if not, Why?

7. ✓ Cover letter (in report) containing executive summary or executive summary at the beginning of the report format.

8. ✓ Date of construction and last renovation (if any) of the building.

9. ✓ List of areas that were not inspected. Explain.

10. ✓ Condition of the building structure such as deterioration, structural problems or other damages.

11. ✓ List of components assumed to have lead based paint or coating, if any.

12. ✓ City of Houston Lead Hazard Categorization (LHC) list and categorization of all the samples according to the LHC list included in the report.

XRF Analyzer Used:

13. NA Performance Characteristics Sheet (PCS) for the XRF equipment/s used.

14. NA Calibration Check Test Results (Form 7.2, HUD Guidelines, or equivalent).

15. NA Statement...if HUD Guidelines were followed for Calibration Check Test of the XRF equipment and replacement XRF equipment, if used.

16. NA Installation date and type of source for XRF equipment and replacement equipment, if used.

17. NA Drawings and photographs with XRF reading locations marked to facilitate future location of XRF readings.

Samples Taken For Laboratory Analysis:

18. ✓ Procedures and protocols used to collect paint chip samples.

19. ✓ Copy of the chain of custody form for samples.

20. ✓ Statement ...if an accredited (NLLAP/ELLAP) laboratory was used for Sample Analysis.

21. ✓ Copy of the Laboratory accreditation certificate.

22. ✓ Copy of the laboratory analysis results of the paint chip samples and other PbCMs .

23. ✓ Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.

24. ✓ Drawings and photographs with sample locations marked to facilitate future location of coating materials sampled.

If Lead Found:

25. ✓ Photographs of all component areas proven to have lead.

26. ✓ Recommendations for all components proven to have lead based paint or coatings.

27. NA Recommendations for Operation and Maintenance Plans.

28. NA Estimated quantities of Lead Containing Materials.

29. NA Cost estimations for abatement.

Signed: [signature]

Name: Michael E. Solomon

Title: Lead Inspector