



TETRA TECH

May 21, 2007

Mr. Roy Crossland
START Project Officer
U.S. Environmental Protection Agency, Region 7
901 North 5th Street
Kansas City, Kansas 66101

**Subject: Trip Report and Data Summary for Asbestos Sampling
Community Laundromat Site, Ava, Missouri
U.S. EPA Region 7 START 3 Contract No. EP-S7-06-01
Task Order No. 0068.000
Task Monitor: Eric Nold, EPA On-Scene Coordinator**

Dear Mr. Crossland:

Tetra Tech EM Inc. is submitting the enclosed Trip Report for asbestos sampling activities conducted in April 2007 at the Community Laundromat site in Ava, Missouri. If you have any questions or comments regarding this submittal, please contact the project manager at (913) 495-3963.

Sincerely,

for Gregory Sharp, CHMM
START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

**TRIP REPORT AND DATA SUMMARY
FOR ASBESTOS SAMPLING**

COMMUNITY LAUNDROMAT SITE – AVA, MISSOURI

**Superfund Technical Assessment and Response Team (START) 3
Contract No. EP-S7-06-01, Task Order 0068.000**

Prepared For:

U.S. Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

May 21, 2007

Prepared By:

Tetra Tech EM Inc.
8030 Flint Street
Lenexa, Kansas 66214
(913) 894-2600

CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SITE BACKGROUND INFORMATION	1
2.1 LOCATION AND DESCRIPTION.....	1
2.2 PREVIOUS INVESTIGATIONS	2
3.0 SITE ACTIVITIES	2
3.1 ASBESTOS INSPECTION AND SAMPLING	2
3.2 SAMPLE DELIVERY	2
4.0 ANALYTICAL DATA SUMMARY	2
5.0 SUMMARY AND CONCLUSIONS	3
6.0 REFERENCES	4

Appendix

A	FIGURE
B	CHAIN-OF-CUSTODY RECORD AND ANALYTICAL RESULTS

TABLES

<u>Table</u>	<u>Page</u>	
1	ANALYTICAL RESULTS FOR ASBESTOS SAMPLES.....	3

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division tasked Tetra Tech EM Inc. (Tetra Tech), under Superfund Technical Assessment and Response Team (START) 3 Contract No. EP-S7-06-01, Task Order No. 0068.000, to conduct an asbestos inspection at the Community Laundromat site in Ava, Missouri. The objective of the inspection was to determine whether asbestos containing material (ACM) was present in structural debris at the site. ACM is defined in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) as any material containing asbestos at a concentration greater than 1 percent (%). In accordance with NESHAP guidelines, any commercial building containing suspected ACM must be inspected by an accredited inspector before any renovation or demolition takes place.

On April 24, 2007, an accredited asbestos inspector from Tetra Tech collected nine samples of suspect building materials from the site. This report summarizes those activities and sampling results.

2.0 SITE BACKGROUND INFORMATION

Information regarding the site's location, description, and relevant investigation history is discussed in this section.

2.1 LOCATION AND DESCRIPTION

The Community Laundromat site is located at 306 Northwest 12th Avenue in the southeast quarter of the northeast quarter of the northwest quarter of Section 11, Township 26 North, Range 16 West, in Douglas County, Missouri (See Appendix A, Figure 1). The geographic coordinates are 36.9593 degrees (39° 57' 33") north latitude and 92.6614 degrees (92° 39' 41") west longitude, and the Universal Transverse Mercator (UTM) coordinates are 530128 meters east and 4090416 meters north, in Zone 15. The site is in a commercial/residential area in Ava, Missouri. Ava has a population of 3,200 and lies approximately 50 miles southeast of Springfield, Missouri.

The site consists of a former laundromat building that was recently demolished by the property owner. Much of the demolition debris remains on site, and the building's basement foundation remains intact. The remainder of the property is unpaved and vacant. Land use in the area is a mix of commercial, light industrial, agricultural, and residential.

2.2 PREVIOUS INVESTIGATIONS

A pre-Comprehensive Environmental Response, Compensation, Liability, and Information System (pre-CERCLIS) Site Screening Assessment was conducted by EPA in July 2001 to determine whether site-related activities had impacted soil and groundwater at the site. Based on the detection of volatile organic compounds (VOC), primarily tetrachloroethylene (PCE), in samples collected during the pre-CERCLIS investigation, the Missouri Department of Natural Resources (MDNR) conducted a subsequent removal assessment at the site in February 2002 to identify conditions that warranted a removal action. Results of those investigations are summarized in previous reports (Tetra Tech 2001, MDNR 2002).

3.0 SITE ACTIVITIES

Sampling activities, including sample delivery for laboratory analysis, are discussed in this section. A copy of the chain-of-custody record for the samples and the analytical results are included as Appendix B.

3.1 ASBESTOS INSPECTION AND SAMPLING

On April 24, 2007, Tetra Tech START member (STM) Gregory Sharp conducted an asbestos inspection at the site, in accordance with NESHAP regulations, as amended in 40 *Code of Federal Regulations* (CFR) Part 61 Subpart M; all State of Missouri (State) regulations; and all local regulations. Several debris piles observed at the site consisted of demolished building materials. STM Sharp collected nine representative samples of suspected ACM from the debris piles that are summarized as follows: three transite samples, three plaster/dry wall samples (including one sample that was divided into two distinct media types by the receiving laboratory), and three samples of floor tiles.

3.2 SAMPLE DELIVERY

On April 26, 2007, the samples were received by Quantem Laboratories (Quantem) in Oklahoma City, Oklahoma, for asbestos analysis by polarized light microscopy (PLM). A quick-turnaround time was requested for all sample results.

4.0 ANALYTICAL DATA SUMMARY

Laboratory data were transmitted to START by the laboratory on April 28, 2007. Quantem identified asbestos at >1% in the three transite samples. No asbestos was detected in the remaining samples. The analytical results are summarized in Table 1.

TABLE 1

**ANALYTICAL RESULTS FOR ASBESTOS SAMPLES
COMMUNITY LAUNDROMAT SITE, AVA, MISSOURI**

Sample Number	Sample Location (in previous structure)	Sample Description	Asbestos Content (% chrysotile)
AVA-1	Exterior	White Transite	10%
AVA-2	Exterior	White Transite	15%
AVA-3	Exterior	White Transite	15%
AVA-4	Interior	Tan Floor Tile	Asbestos Not Present
AVA-5	Interior	Tan Floor Tile	Asbestos Not Present
AVA-6	Interior	Tan Floor Tile	Asbestos Not Present
AVA-7	Interior	White Dry Wall/Skim Coat	Asbestos Not Present
AVA-7a	Interior	Brown Plaster	Asbestos Not Present
AVA-8	Interior	White Plaster	Asbestos Not Present
AVA-9	Interior	White Plaster	Asbestos Not Present

Notes:

Bold results indicate concentrations of greater than 1% asbestos, exceeding the NESHAP definition of ACM.

NESHAP National Emissions Standards for Hazardous Air Pollutants
ACM Asbestos containing material

5.0 SUMMARY AND CONCLUSIONS

An asbestos inspection and sampling event was conducted at the Community Laundromat site in Ava, Missouri, on April 24, 2007. START collected nine samples (including one sample that was divided into two distinct media types by the receiving laboratory) of suspect building materials that were submitted for laboratory analysis of asbestos by PLM. Asbestos was detected at >1% in three samples of exterior white transite. No other samples collected from the Community Laundromat site contained asbestos at >1%. The transite observed in the debris piles is considered ACM and should be handled and disposed of by a Missouri Licensed Asbestos Abatement Contractor. If it is determined that the transite cannot feasibly be segregated from the rest of the debris, then all remaining debris may require disposal as ACM (special waste). Once the debris piles are removed, soil samples should be collected from a random grid pattern to ensure that all asbestos has been removed from the site.

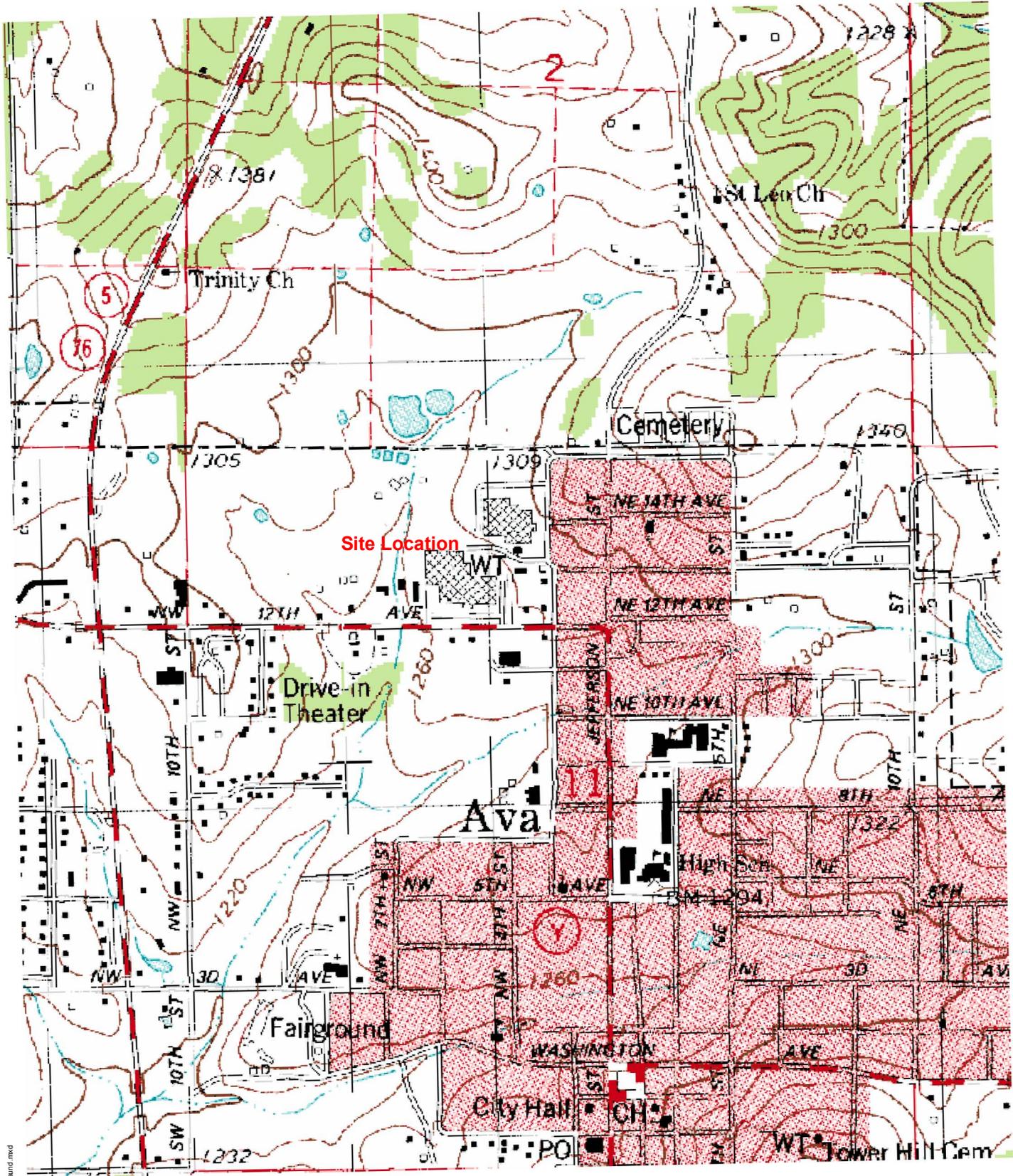
6.0 REFERENCES

Missouri Department of Natural Resources (MDNR). 2002. Removal Assessment Report. Community Laundromat Site, Douglas County, Missouri. MON000704080. April 23.

Tetra Tech EM Inc. (Tetra Tech). 2001. Pre-CERCLIS Site Screening Assessment of the Community Laundromat Site, Ava, Missouri. November 2.

APPENDIX A

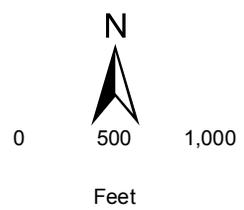
FIGURE



Community Laundromat
Ava, Missouri

Figure 1
Site Location Map

Legend
Site Location



Tt Tetra Tech Inc.

APPENDIX B

CHAIN-OF-CUSTODY RECORD AND ANALYTICAL RESULTS



Asbestos Chain-of-Custody Form

2033 Heritage Park Drive, Oklahoma City, OK 73120
 (800) 822-1650 (405) 755-7272 Fax (405) 755-2058

149002

Page 1 of 1

**Legal Document
Please Print
Legibly**

Company: Tetra Tech Acct.# _____ Project: AUA
 Project Location: AUA MO Project Number: _____

Sample ID Number	<input checked="" type="checkbox"/> To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
AUA 1		Tan / Transite		
AUA 2				
AUA 3				
AUA 4		Tan / Floor Tile		
AUA 5				
AUA 6				
AUA 7		WHITE PLASTER		Analyze SKIMCOAT
AUA 8				
AUA 9				

TEM

Air - AHERA clearance*
Air - TEM
Air - NIOSH 7402
Bulk - Qualitative [Yes / No] (EPA 600/R-93/116)
Bulk - Quantitative [weight %] (Chatfield)
Dust - Qualitative [Yes / No]
Dust - Quantative [fibers / sq. cm] (ASTM D5755)
Drinking Water (EPA 100.2)
Waste Water (EPA 600/4-83-043)
Other

* AHERA clearance samples must consist of 5 inside, 5 outside, and 3 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 560 L.

PLM

<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)
Quantitative Point Counting
Other

PCM

NIOSH 7400
Other

Relinquished By: <u>Greg Sharp</u>	Time/Date: <u>4/25/07</u>	Via: <u>FED EX</u>	Received By: _____	Time/Date: _____	Turnaround: <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 hour <input type="checkbox"/> 48 hour <input type="checkbox"/> 3-5 Day	Report results to: <u>Greg Sharp</u>
Relinquished By: _____	Time/Date: _____	Via: _____	Received By: _____	Time/Date: _____		Telephone number: <u>913-709-7637</u>
						Fax Number: <u>913-894-2645</u>

Saturday FedEx Shipping: (Use for FedEx only) 4220 N. Santa Fe Ave., Oklahoma City, OK 73105 (Mark package "HOLD FOR PICKUP")

Sampled By: <u>GWS</u>	Date Sampled: <u>4/24/07</u>
------------------------	------------------------------

* Please call w/ VERBALS 913 709 7637



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Tetra Tech EM, Inc.
8030 Flint St
Lenexa, KS 66214

Re: QuantEM ID 149002

QuantEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuantEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuantEM Laboratories, LLC.





2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 149002	Client:	Tetra Tech EM, Inc.
Account Number: B229		8030 Flint St
		Lenexa, KS 66214
Date Received: 04/26/2007		
Received By: Teresa DeJarnett		
Date Analyzed: 04/27/2007	Project:	Ava
Analyzed By: Amy Gill	Project Location:	Ava MO
Methodology: EPA/600/R-93/116	Project Number:	N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)
001	AVA 1	Homogeneous	White Transite	Asbestos Present Chrysotile 10	NA
002	AVA 2	Homogeneous	White Transite	Asbestos Present Chrysotile 15	NA
003	AVA 3	Homogeneous	White Transite	Asbestos Present Chrysotile 15	NA
004	AVA 4	Homogeneous	Tan Floor Tile	Asbestos Not Present	Cellulose <1
005	AVA 5	Homogeneous	Tan Floor Tile	Asbestos Not Present	NA
006	AVA 6	Homogeneous	Tan Floor Tile	Asbestos Not Present	NA
007	AVA 7	Layered	White Skim Coat	Asbestos Not Present	NA

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.

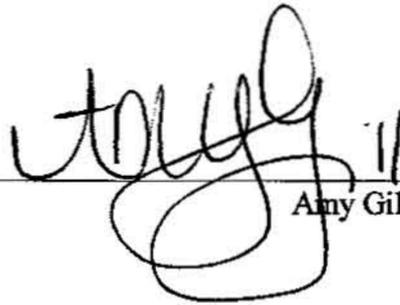


2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No.	149002	Client:	Tetra Tech EM, Inc.
Account Number:	B229		8030 Flint St
			Lenexa, KS 66214
Date Received:	04/26/2007		
Received By:	Teresa DeJarnett		
Date Analyzed:	04/27/2007	Project:	Ava
Analyzed By:	Amy Gill	Project Location:	Ava MO
Methodology:	EPA/600/R-93/116	Project Number:	N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)
007a		Layered	Brown Plaster	Asbestos Not Present	Cellulose <1
008	AVA 8	Homogeneous	White Plaster	Asbestos Not Present	Cellulose <1
009	AVA 9	Homogeneous	White Plaster	Asbestos Not Present	Cellulose <1


 Amy Gill, Analyst

4/27/2007
 Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Quantem is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.