2 March 2012

Mr. John Boucher
Facilities Operations & Safety Manager
District School Board of Pasco County
7227 Land O'Lakes Boulevard
Land O'Lakes, Florida 34639

Ph: 813-794-7961
Fax: 813-794-2173
E-mail: jboucher@pasco.k12.fl.us

Subject: **Report of Lead-Based Paint Survey**
Quail Hollow Elementary School – Designated Buildings
7050 Quail Hollow Boulevard
Zephyrhills, Florida
AMEC Project 6520-11-0346

Via e-mail & 1st Class Mail

Dear Mr. Boucher:

AMEC Environment & Infrastructure, Inc. (AMEC), has completed the Lead-Based Paint Survey of the within the designated buildings at Quail Hollow Elementary School located in Zephyrhills, Florida. These services were provided in accordance with AMEC Proposal PROP11TMPA-052 dated 18 April 2011. This report, consisting of five pages of narrative and three appendices, must be considered and utilized in its entirety.

We appreciate the opportunity to be of service to you and look forward to our continued association. If you should have any questions concerning this report, please contact us at your convenience.

Sincerely,

AMEC Environment & Infrastructure, Inc.

Carol L. Thoma

Carol L. Thoma, MPH
EPA LBP Risk Assessor
Florida # FL-R-9718-3

Russell E. Stauffer

Russell E. Stauffer, P.E.
Principal Engineer
EPA LBP Risk Assessor
Florida #FL-R-4379-2

P:\FACILIT\2011\Projects\6520-11-0346 Quail Hollow ES LBP\Report\Quail Hollow ES LBP.doc

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Report:
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TABLE OF CONTENTS

1.0 BACKGROUND INFORMATION

AMEC was requested by the District School Board of Pasco County to perform an Environmental Protection Agency (EPA)-compliant lead-based paint (LBP) survey utilizing U.S. Department of Housing and Urban Development (HUD) procedures.

2.0 PROJECT INFORMATION SUMMARY

AMEC PROJECT NUMBER	6520-11-0346
FACILITY NAME	Quail Hollow Elementary School
FACILITY ADDRESS	7050 Quail Hollow Road Zephyrhills, Florida
TYPE OF FACILITY	Elementary School
BUILDINGS CONSTRUCTED PRIOR TO 1978	Building No. 1
NUMBER OF FLOORS	1
OCCUPIED/NON-OCCUPIED	Occupied
DATES OF INSPECTION	22 February 2012
ACCREDITED INSPECTOR	Carol Thoma

3.0 SURVEY PROCEDURES

3.1 LEAD-BASED COATING SURVEY PROCEDURES

3.1.1 Survey Overview

AMEC obtained 79 (including 6 calibration tests) test readings on interior coated surfaces. This testing was conducted on 22 February 2012, by Ms. Carol Thoma of AMEC's Tampa office in general accordance with the applicable portions of Chapter 7 of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (1997 revision), to document whether lead-based coatings were present. In addition, the results, to assist in compliance with requirements of Occupational Safety and Health Administration (OSHA), are reported in a format that documents which surfaces are covered with lead-based coatings. Copies of certifications of AMEC personnel performing the lead-based paint survey are provided in Appendix C of this report.

Assuming the interior and exterior components of the building areas not tested were painted at the same time and with the same type of paint as those components tested, it is reasonable to assume similar X-ray Fluorescence (XRF) test results on the untested components.

3.1.2 Regulatory Definition of Lead-Based Paint

3.1.2.1 EPA and HUD has defined lead-based paint as coatings where the concentration of lead is equal to or exceeds 1.0 milligram of lead per square centimeter of surface area (1.0 milligram per square centimeter (mg/cm^2)) when tested by XRF or 0.5 percent by weight when analyzed by laboratory methods.

3.1.2.2 In 1998, the Consumer Product Safety Commission (CPSC) banned coatings for non-industrial applications where the concentration of lead is equal to or exceeds 600 parts per million (ppm) or 0.06 percent be weight in the dry film.

3.1.2.3 OSHA does not have a definition of lead-based paint. Instead, OSHA addresses lead that can become airborne if **coatings containing any quantifiable concentrations of lead** are disturbed during construction activities.

3.1.3 Methodology

The XRF used for this survey was the *NITON Model XL-309, Serial No. U2636TR1019*. The instrument provides an almost instantaneous measurement of the lead content of the material being tested in mg/cm^2.

The XRF operator was Ms. Carol Thoma an EPA-licensed Lead Inspector/Risk Assessor from AMEC's Tampa, Florida office. The specific test locations are identified in the field test results sheets in Appendix A of this report.

3.1.4 Testing Results

Of the 79 tests (including 6 calibration readings):

- None showed lead concentrations at or above the EPA/HUD definition of lead-based paint (at or above 1.0 mg/cm^2) on tested interior coatings.
- No readings were above the CPSC definition of 600 ppm for lead-based paint.
- Twenty-seven various other components were documented to have lead concentrations present, but at levels below the EPA/HUD/CPSC levels.
- The remaining tested component coatings were below the detection limit of the instrument.

NOTE: Components documented as not exceeding the HUD/EPA thresholds, may contain lower concentrations of lead which, if disturbed, may release sufficient lead to exceed airborne concentrations above the OSHA Action Level or Permissible Exposure Limit.

4.0 RESULTS

4.1 LEAD-BASED COATINGS

See Appendix A for the Lead-Based Coatings Results. Note that the coatings/components tested were classified as in generally "good" condition.

5.0 RECOMMENDATIONS

5.1 LEAD-BASED COATINGS

The disturbance of lead containing painted surfaces should be performed in accordance with EPA-Lead; Renovation, Repair and Painting Program (40 CFR 745.80, Subpart E) and also be addressed in accordance with OSHA Construction Standard for Lead (29 CFR 1926.62). The OSHA Lead Regulations include provisions for training; written compliance programs; exposure assessments; notifications; engineering controls; and specified work practices. Also, any waste generated by operations that would disturb the identified lead-containing components, should be considered as being a potentially hazardous exposure to the workers.

Waste characterization (including TCLP testing) of any segregated lead-containing components should be performed by the contractor or personnel generating the waste, prior to off-site waste shipment, to determine the proper disposal requirements. Alternately, EPA notes that if lead-containing components, for primarily residences are not segregated, local, state and federal regulations may allow for these components to be included and handled as normal "construction debris" waste. Since varying, local regulatory interpretations exist, the contractor or personnel generating the waste should contact all applicable and local regulatory authorities concerning this approach.

6.0 QUALIFICATIONS

AMEC has endeavored to observe the existing conditions at the facility using generally accepted procedures. Regardless of the thoroughness of a survey, there is always the possibility that some areas were overlooked, inaccessible, or different from those at specific sample locations. Therefore, conditions at every location may not be as anticipated and as summarized in this report. In addition, renovation or demolition may uncover altered or differing conditions. We recommend that you notify AMEC if any changed conditions are encountered so that we can assess the situation and its impact on our original recommendations.

This report is intended for the exclusive use of District School Board of Pasco County. This survey was not intended to be or developed as a substitute for project-specific Bidding or Contract Documents. Use of this report or reliance upon information contained in this report by any other party acts as an agreement by that party to the same terms and conditions under which our services were provided. Furthermore, any use of this report by a party for purposes beyond those intended by AMEC and District School Board of Pasco County will be at the sole risk of that party.

APPENDIX A

LEAD-BASED PAINT TESTING RESULTS

XRF Table

By: C. Thoma
Date: 2/22/12

Test No.	Specific Location	Component	Substrate	Color	Comments	Test Reading (mg/cm^2)	Extrapolated Result (ppm)
1	Calibration					1.0	
2	Calibration					1.1	
3	Calibration					1.0	
4	01-090	S Wall	Drywall	Lt. Blue		-0.4	BDL
5	01-090	N Wall	Drywall	Dk. Blue		0.01	*50*
6	01-090	Door	Wood	Dk. Blue		0.00	BDL
7	01-090	Door Frame	Metal	Dk. Blue		0.00	BDL
8	01-095	Door	Wood	Dk. Blue		0.00	BDL
9	01-095	Door Frame	Metal	Dk. Blue		-0.5	BDL
10	01-095	N Wall	Drywall	Lt. Blue		0.00	BDL
11	01-094	E Wall	Drywall	Lt. Blue		-0.1	BDL
12	01-094	E Wall	Drywall	Dk. Blue		0.02	*100*
13	01-093	Door	Wood	Dk. Blue		0.00	BDL
14	01-093	Door Frame	Metal	Dk. Blue		0.01	*50*
15	01-080	S Wall	Drywall	Lt. Blue		0.00	BDL
16	01-080	N Wall	Drywall	Dk. Blue		0.00	BDL
17	01-088	Door	Wood	Dk. Blue		0.00	BDL
18	01-088	Door Frame	Metal	Dk. Blue		0.02	*100*
19	01-085	Door	Wood	Dk. Blue		0.00	BDL
20	01-085	Door Frame	Metal	Dk. Blue		0.03	*150*
21	01-085	E Wall	Drywall	Lt. Blue		0.01	*50*
22	01-070	E Wall	Drywall	Lt. Blue		-0.2	BDL
23	01-070	E Wall	Drywall	Dk. Blue		0.0	BDL
24	01-077	Door	Wood	Dk. Blue		0.00	BDL
25	01-077	Door Frame	Metal	Dk. Blue		0.00	BDL
26	01-075	Door	Wood	Dk. Blue		0.00	BDL
27	01-075	Door Frame	Metal	Dk. Blue		0.05	*250*
28	01-075	W Wall	Drywall	Lt. Blue		0.1	*500*
29	01-074	S Wall	Drywall	Lt. Blue		0.00	BDL
30	01-074	S Wall	Drywall	Dk. Blue		0.00	BDL

XRF Table

By: C. Thoma
Date: 2/22/12

Test No.	Specific Location	Component	Substrate	Color	Comments	Test Reading (mg/cm^2)	Extrapolated Result (ppm)
31	01-074	Door	Wood	Dk. Blue		0.00	BDL
32	01-074	Door Frame	Metal	Dk. Blue		0.01	*50*
33	01-070	E Wall	Drywall	Lt. Blue		-0.4	BDL
34	01-070	E Wall	Drywall	Dk. Blue		0.00	BDL
35	01-069	Door	Wood	Dk. Blue		0.00	BDL
36	01-069	Door Frame	Metal	Dk. Blue		0.01	*50*
37	01-069	W Wall	Drywall	Lt. Blue		0.00	BDL
38	01-062	Door	Wood	Dk. Blue		0.00	BDL
39	01-062	Door Frame	Metal	Dk. Blue		0.00	BDL
40	01-062	W Wall	Drywall	Lt. Blue		0.05	*250*
41	01-062	W Wall	Drywall	Dk. Blue		0.00	BDL
42	01-050	N Wall	Drywall	Lt. Blue		-0.4	BDL
43	01-050	N Wall	Drywall	Dk. Blue		0.01	*50*
44	01-057	Door	Wood	Dk. Blue		0.00	BDL
45	01-057	Door Frame	Metal	Dk. Blue		0.01	*50*
46	01-058	Door	Wood	Dk. Blue		0.00	BDL
47	01-058	Door Frame	Metal	Dk. Blue		0.01	*50*
48	01-058	E Wall	Drywall	Lt. Blue		0.00	BDL
49	01-051	S Wall	Drywall	Lt. Blue		-0.1	BDL
50	01-051	S Wall	Drywall	Dk. Blue		0.01	*50*
51	01-051	N Wall	Drywall	Lt. Blue		-0.06	BDL
52	01-040	N Wall	Drywall	Dk. Blue		-0.03	BDL
53	01-048	Door	Wood	Dk. Blue		0.00	BDL
54	01-048	Door Frame	Metal	Dk. Blue		0.01	*50*
55	01-044	W Wall	Drywall	Lt. Blue		0.02	*100*
56	01-044	Door	Wood	Dk. Blue		0.00	BDL
57	01-044	Door Frame	Metal	Dk. Blue		0.01	*50*
58	01-030	S Wall	Drywall	Lt. Blue		-0.01	BDL
59	01-030	S Wall	Drywall	Dk. Blue		0.01	*50*
60	01-032	Door	Wood	Dk. Blue		0.00	BDL

XRF Table

By: C. Thoma
Date: 2/22/12

Test No.	Specific Location	Component	Substrate	Color	Comments	Test Reading (mg/cm^2)	Extrapolated Result (ppm)
61	01-032	Door Frame	Metal	Dk. Blue		0.01	*50*
62	01-114	W Wall	Drywall	Lt. Blue		-0.1	BDL
63	01-114	Door	Wood	Dk. Blue		0.00	BDL
64	01-114	Door Frame	Metal	Dk. Blue		0.1	*500*
65	01-120	Door	Wood	Dk. Blue		0.01	*50*
66	01-120	Door Frame	Metal	Dk. Blue		0.00	BDL
67	01-120	E Wall	Drywall	Lt. Blue		0.00	BDL
68	01-008	Door	Wood	Dk. Blue		0.00	BDL
69	01-008	Door Frame	Wood	Dk. Blue		0.00	BDL
70	01-008	S Wall	Drywall	Cream		0.01	*50*
71	01-003	Door	Wood	Dk. Blue		0.00	BDL
72	01-003	Door Frame	Metal	Dk. Blue		0.01	*50*
73	01-003	E Wall	Drywall	Yellow		0.02	*100*
74	01-016	Door	Wood	Dk. Blue		0.00	BDL
75	01-016	Door Frame	Metal	Dk. Blue		0.05	*250*
76	01-016	W Wall	Drywall	Yellow		0.03	*150*
77	Calibration					1.1	
78	Calibration					1.0	
79	Calibration					1.0	

Notes:

mg/m^2 = milligrams per square centimeter
ppm = parts per million

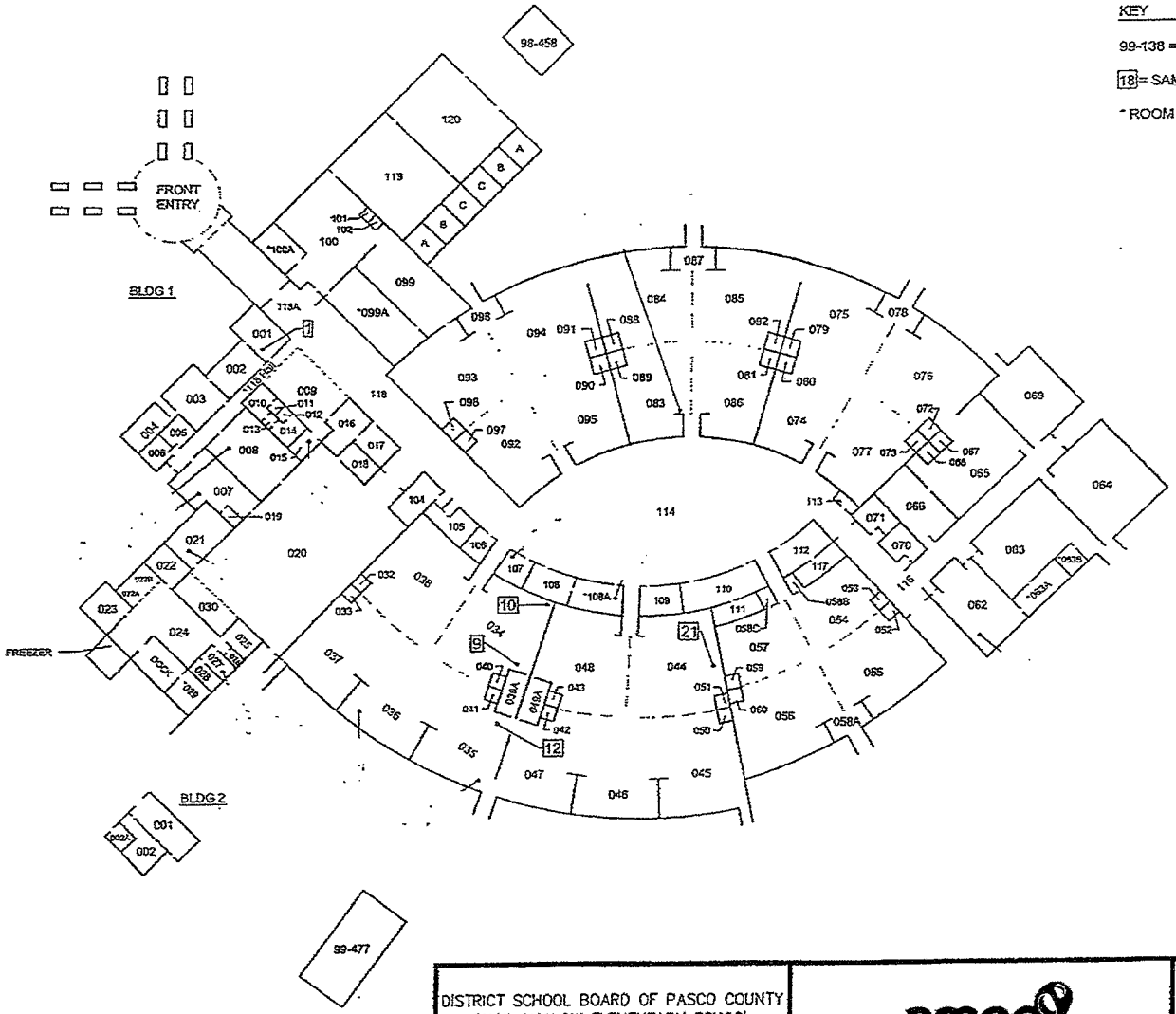
Bolded = Value above EPA/HUD LBP Threshold (1.0 mg/cm^2/5,000 ppm)
Not Bolded = Values above CPSC LBP definition (600 ppm)
Italicized = Values above OSHA detectable lead concentrations

Prepared by: cjs
Checked by:

APPENDIX B

SITE PLAN

6520-07-0022.20



Prepared/Date: JT 06/08/07
Checked/Date: CT 6/11/07

DISTRICT SCHOOL BOARD OF PASCO COUNTY
QUAIL HOLLOW ELEMENTARY SCHOOL
WESLEY CHAPEL, FLORIDA

amec

SITE PLAN

Project 6520-11-0346 Figure 1

APPENDIX C

CERTIFICATIONS

United States Environmental Protection Agency

This is to certify that

Russell E. Stauffer

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as a:

Risk Assessor

In the Jurisdiction of:

Florida

This certification is valid from the date of issuance and expires August 29, 2012

FL-R-4379-2

Certification #

SEP 1 8 2009

Issued On

Jeaneanne M. Gettle, Chief

Pesticides and Toxic Substances Branch

United States Environmental Protection Agency

This is to certify that

Carol E. Thoma

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as a:

Risk Assessor

In the Jurisdiction of:

Florida

This certification is valid from the date of issuance and expires September 10, 2015

FL-R-9718-3
Certification #

OCT 18 2010
Issued On

Jeanleanne M. Gettle, Chief
Pesticides and Toxic Substances Branch

NITON LLC

Certificate of Achievement

Carol Thoma

OHC Environmental Engineering

has successfully completed the Manufacturer's Training Course for the **NITON Spectrum Analyzer** *and is now certified in radiation safety and monitoring, measurement technology, and machine maintenance of the* **NITON XRF Spectrum Analyzer.**

A4042940885
Certificate Number

05/19/04 Orlando, FL
Date & Site of Course

Victoria Grzybinski
Training Coordinator

Director of Training