

Marshall Environmental Management, Incorporated

Established in 1987
Certified Industrial Hygiene
Environmental Science
Occupational Health & Safety
Asbestos Management
Toxic & Hazardous Waste
Medical Hazards Management
Research & Consultation

March 2, 2015

Jared Jakubowski, Associate Planner
City of Moore Community Development
301 North Broadway
Moore, OK 73160

RE: ROYAL PARK REDEVELOPMENT TRACT – ASBESTOS & LEAD SOIL SAMPLING

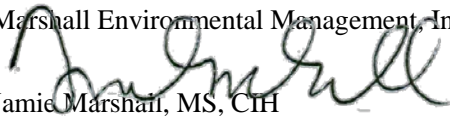
Dear Mr. Jakubowski:

Marshall Environmental Management, Incorporated (MEM) has completed the review of the analytical data resulting from the environmental soil sampling that took place on February 19, 2015 of the Royal Park Redevelopment Tract located in Moore, Oklahoma. This soil-sampling event was accomplished for the purpose of evaluating the soil for the presence of asbestos or lead-based paint contamination following the May 2013 tornado. Composite soil samples representative of each pad site were collected so that a strategy that follows the regulations set forth by the Environmental Protection Agency (EPA) may be prepared for the management and/or abatement (i.e. the removal and disposal) of material(s) that may contain asbestos or lead-based paint.

According to the Environmental Protection Agency (EPA) with regard to *Target Housing and Child-Occupied Facilities*¹, a LBP Hazard² is any condition that creates or has the potential to create an exposure to lead-contaminated dust, soil or paint by means of deterioration, friction and/or impact, which could result in adverse human-health effects. As such, soil collected from *High Contact Play Areas* that contains concentrations of lead that are equal to or greater than 400-milligrams per kilogram (≥ 400 -mg/kg), and $\geq 1,200$ -mg/kg for soil collected from *Other Residential Yard Areas*, are defined as LBP Hazards. Furthermore, the EPA and the Oklahoma Department of Labor define an Asbestos-Containing Material (ACM) as any material that contains asbestos in concentrations greater than one percent ($>1\%$). As such, asbestos was detected in trace amounts (i.e. less than 1%) in samples 13A & 14A, therefore is not considered asbestos containing material. Subsequently, the lead-based paint and asbestos concentration detected in the soil samples were below the aforementioned levels. On pad sites where asbestos was detected in the soil, recommendations suggest visual inspection and resampling to determine where the contamination originated. Reference the tables on the following page for a summary of the laboratory analyses.

In conclusion, the sample collection process and the determination of compliance were carried out in accordance with *Good Industrial Practices* under the direction of Jamie Marshall, Certified Industrial (CIH) and President of MEM. The Chain of Custody and associated laboratory analyses are provided for your records as an attachment to this report. Once you have had a chance to review, please email or call with any questions. Thank you for allowing Marshall Environmental Management Incorporated the opportunity to be of service.

Sincerely,
Marshall Environmental Management, Incorporated


Jamie Marshall, MS, CIH
President

Attachments

¹ Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities (40 Code of Federal Regulations [CFR] Part 745

² 40-CFR, Part 745.65 Lead-Based Paint Hazards <http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=ac762921cec2401d59ba7e2e6c419dbc&n=40v32.0.1.1.14&r=PART&v=HTML#40:32.0.1.1.14.2.1.3>

ANALYTICAL SUMMARY**TABLE I: LEAD-BASED PAINT SOIL CONCENTRATION – ANALYTICAL SUMMARY**

LAB ID	SAMPLE LOCATION	SIDE/AREA	RESULTS	ACCEPTABLE LEVEL
1L	701 SW 14 TH STREET	COMPOSITE	<38.2 – mg/kg	400-mg/kg
2L	703 SW 14 TH STREET	COMPOSITE	<38.0 – mg/kg	400-mg/kg
3L	705 SW 14 TH STREET	COMPOSITE	<40.1 – mg/kg	400-mg/kg
4L	707 SW 14 TH STREET	COMPOSITE	<37.7 – mg/kg	400-mg/kg
5L	709 SW 14 TH STREET	COMPOSITE	<39.3 – mg/kg	400-mg/kg
6L	711 SW 14 TH STREET	COMPOSITE	<36.2 – mg/kg	400-mg/kg
7L	713 SW 14 TH STREET	COMPOSITE	<39.5 – mg/kg	400-mg/kg
8L	715 SW 14 TH STREET	COMPOSITE	<39.5 – mg/kg	400-mg/kg
9L	700 SW 14 TH STREET	COMPOSITE	<36.4 – mg/kg	400-mg/kg
10L	704 SW 14 TH STREET	COMPOSITE	<35.7 – mg/kg	400-mg/kg
11L	708 SW 14 TH STREET	COMPOSITE	<35.4 – mg/kg	400-mg/kg
12L	712 SW 14 TH STREET	COMPOSITE	<35.7 – mg/kg	400-mg/kg
13L	716 SW 14 TH STREET	COMPOSITE	<34.0 – mg/kg	400-mg/kg
14L	720 SW 14 TH STREET	COMPOSITE	<38.5 – mg/kg	400-mg/kg
15L	724 SW 14 TH STREET	COMPOSITE	<38.4 – mg/kg	400-mg/kg
16L	1701 MACLAREN	COMPOSITE	<35.6 – mg/kg	400-mg/kg
17L	1703 MACLAREN	COMPOSITE	<38.9 – mg/kg	400-mg/kg
18L	1705 MACLAREN	COMPOSITE	<38.1 – mg/kg	400-mg/kg
19L	1707 MACLAREN	COMPOSITE	<39.5 – mg/kg	400-mg/kg
20L	1709 MACLAREN	COMPOSITE	<35.7 – mg/kg	400-mg/kg
21L	1711 MACLAREN	COMPOSITE	<38.9 – mg/kg	400-mg/kg
22L	1713 MACLAREN	COMPOSITE	<39.0 – mg/kg	400-mg/kg
23L	1715 MACLAREN	COMPOSITE	<37.8 – mg/kg	400-mg/kg
24L	1717 MACLAREN	COMPOSITE	<38.9 – mg/kg	400-mg/kg
25L	1719 MACLAREN	COMPOSITE	<38.9 – mg/kg	400-mg/kg
26L	1721 MACLAREN	COMPOSITE	<35.6 – mg/kg	400-mg/kg
27L	1718 MACLAREN	COMPOSITE	<39.1 – mg/kg	400-mg/kg
28L	1716 MACLAREN	COMPOSITE	<38.9 – mg/kg	400-mg/kg
29L	1714 MACLAREN	COMPOSITE	<39.4 – mg/kg	400-mg/kg
30L	1708 MACLAREN	COMPOSITE	<36.4 – mg/kg	400-mg/kg
31L	1704 MACLAREN	COMPOSITE	<39.6 – mg/kg	400-mg/kg
32L	1716 KENT CIRCLE	COMPOSITE	<38.3 – mg/kg	400-mg/kg
33L	1700 MACLAREN	COMPOSITE	<35.0 – mg/kg	400-mg/kg
34L	1705 JANEWAY	COMPOSITE	<37.2 – mg/kg	400-mg/kg
35L	1709 JANEWAY	COMPOSITE	<37.0 – mg/kg	400-mg/kg
36L	1713 JANEWAY	COMPOSITE	<37.9 – mg/kg	400-mg/kg
37L	1719 JANEWAY	COMPOSITE	<38.2 – mg/kg	400-mg/kg
38L	1723 JANEWAY	COMPOSITE	<36.8 – mg/kg	400-mg/kg
39L	1731 JANEWAY	COMPOSITE	<37.4 – mg/kg	400-mg/kg
40L	1735 JANEWAY	COMPOSITE	<37.4 – mg/kg	400-mg/kg
41L	701 SW 17 TH	COMPOSITE	<35.3 – mg/kg	400-mg/kg

42L	700 SW 13 TH	COMPOSITE	<36.2 – mg/kg	400-mg/kg
43L	702 SW 13 TH	COMPOSITE	<39.4 – mg/kg	400-mg/kg
44L	704 SW 13 TH	COMPOSITE	<37.3 – mg/kg	400-mg/kg
45L	706 SW 13 TH	COMPOSITE	<38.8 – mg/kg	400-mg/kg
46L	708 SW 13 TH	COMPOSITE	<37.8 – mg/kg	400-mg/kg
47L	710 SW 13 TH	COMPOSITE	<39.6 – mg/kg	400-mg/kg
48L	712 SW 13 TH	COMPOSITE	<39.4 – mg/kg	400-mg/kg
49L	714 SW 13 TH	COMPOSITE	<35.8 – mg/kg	400-mg/kg
50L	716 SW 13 TH	COMPOSITE	<36.9 – mg/kg	400-mg/kg
51L	711 SW 13 TH	COMPOSITE	<37.8 – mg/kg	400-mg/kg
52L	709 SW 13 TH	COMPOSITE	<36.2 – mg/kg	400-mg/kg
53L	707 SW 13 TH	COMPOSITE	<39.0 – mg/kg	400-mg/kg
54L	705 SW 13 TH	COMPOSITE	<35.9– mg/kg	400-mg/kg
55L	703 SW 13 TH	COMPOSITE	<39.3– mg/kg	400-mg/kg
56L	701 SW 13 TH	COMPOSITE	<38.5– mg/kg	400-mg/kg
57L	1307 JANEWAY	COMPOSITE	<38.4– mg/kg	400-mg/kg
58L	1303 JANEWAY	COMPOSITE	<38.8– mg/kg	400-mg/kg

TABLE II: ASBESTOS SOIL CONCENTRATION – ANALYTICAL SUMMARY

LAB ID	SAMPLE LOCATION	SIDE/AREA	RESULTS	ASBESTOS CONTAINING MATERIAL
1A	701 SW 14 TH STREET	COMPOSITE	N/D	>1%
2A	703 SW 14 TH STREET	COMPOSITE	N/D	>1%
3A	705 SW 14 TH STREET	COMPOSITE	N/D	>1%
4A	707 SW 14 TH STREET	COMPOSITE	N/D	>1%
5A	709 SW 14 TH STREET	COMPOSITE	N/D	>1%
6A	711 SW 14 TH STREET	COMPOSITE	N/D	>1%
7A	713 SW 14 TH STREET	COMPOSITE	N/D	>1%
8A	715 SW 14 TH STREET	COMPOSITE	N/D	>1%
9A	700 SW 14 TH STREET	COMPOSITE	N/D	>1%
10A	704 SW 14 TH STREET	COMPOSITE	N/D	>1%
11A	708 SW 14 TH STREET	COMPOSITE	N/D	>1%
12A	712 SW 14 TH STREET	COMPOSITE	N/D	>1%
13A	716 SW 14 TH STREET	COMPOSITE	<1% CHRYSOTILE	>1%
14A	720 SW 14 TH STREET	COMPOSITE	<1% CHRYSOTILE	>1%
15A	724 SW 14 TH STREET	COMPOSITE	N/D	>1%
16A	1701 MACLAREN	COMPOSITE	N/D	>1%
17A	1703 MACLAREN	COMPOSITE	N/D	>1%
18A	1705 MACLAREN	COMPOSITE	N/D	>1%
19A	1707 MACLAREN	COMPOSITE	N/D	>1%
20A	1709 MACLAREN	COMPOSITE	N/D	>1%
21A	1711 MACLAREN	COMPOSITE	N/D	>1%
22A	1713 MACLAREN	COMPOSITE	N/D	>1%
23A	1715 MACLAREN	COMPOSITE	N/D	>1%
24A	1717 MACLAREN	COMPOSITE	N/D	>1%
25A	1719 MACLAREN	COMPOSITE	N/D	>1%

26A	1721 MACLAREN	COMPOSITE	N/D	>1%
27A	1718 MACLAREN	COMPOSITE	N/D	>1%
27A	1716 MACLAREN	COMPOSITE	N/D	>1%
28A	1714 MACLAREN	COMPOSITE	N/D	>1%
30A	1708 MACLAREN	COMPOSITE	N/D	>1%
31A	1704 MACLAREN	COMPOSITE	N/D	>1%
32A	1716 KENT CIRCLE	COMPOSITE	N/D	>1%
33A	1700 MACLAREN	COMPOSITE	N/D	>1%
34A	1705 JANEWAY	COMPOSITE	N/D	>1%
35A	1709 JANEWAY	COMPOSITE	N/D	>1%
36A	1713 JANEWAY	COMPOSITE	N/D	>1%
37A	1719 JANEWAY	COMPOSITE	N/D	>1%
38A	1723 JANEWAY	COMPOSITE	N/D	>1%
39A	1731 JANEWAY	COMPOSITE	N/D	>1%
40A	1735 JANEWAY	COMPOSITE	N/D	>1%
41A	701 SW 17 TH	COMPOSITE	N/D	>1%
42A	700 SW 13 TH	COMPOSITE	N/D	>1%
43A	702 SW 13 TH	COMPOSITE	N/D	>1%
44A	704 SW 13 TH	COMPOSITE	N/D	>1%
45A	706 SW 13 TH	COMPOSITE	N/D	>1%
46A	708 SW 13 TH	COMPOSITE	N/D	>1%
47A	710 SW 13 TH	COMPOSITE	N/D	>1%
48A	712 SW 13 TH	COMPOSITE	N/D	>1%
49A	714 SW 13 TH	COMPOSITE	N/D	>1%
50A	716 SW 13 TH	COMPOSITE	N/D	>1%
51A	711 SW 13 TH	COMPOSITE	N/D	>1%
52A	709 SW 13 TH	COMPOSITE	N/D	>1%
53A	707 SW 13 TH	COMPOSITE	N/D	>1%
54A	705 SW 13 TH	COMPOSITE	N/D	>1%
55A	703 SW 13 TH	COMPOSITE	N/D	>1%
56A	701 SW 13 TH	COMPOSITE	N/D	>1%
57A	1307 JANEWAY	COMPOSITE	N/D	>1%
58A	1303 JANEWAY	COMPOSITE	N/D	>1%

ND - NONE DETECTED

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION		REPORT TO		INVOICE TO	
PROJECT ID	0028-EN-021615	CLIENT/ COMPANY	City of Moore - Community Development	CLIENT/ COMPANY	
PROJECT TYPE	Environmental	ATTENTION	Jared Jakubowski	ATTENTION	Jared Jakubowski
PROJECT NAME	Royal Park Development Tract	TITLE	Associate Planner	TITLE	Associate Planner
PROJECT ADDRESS	301 North Broadway Moore, OK 73160	ADDRESS	301 North Broadway Moore, OK 73160	ADDRESS	301 North Broadway Moore, OK 73160
SITE CONTACT	Jared Jakubowski, Associate Planner	PHONE #		PHONE #	
PHONE #		MOBILE #		MOBILE #	
MOBILE #		ALTERNATE #		ALTERNATE #	
EMAIL ADDRESS		EMAIL ADDRESS		EMAIL ADDRESS	

SAMPLE IDENTIFICATION #			SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
LAB #	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0023	2-19-15	1A	701 - soil	Lot - 701 SW 14 th Street	Brown	Good	Misc.
↓	↓	2A	703 - soil	703 SW 14 th street	↓	↓	↓
↓	↓	3A	705 - soil	705 SW 14 th street	↓	↓	↓
↓	↓	4A	707 - soil	707 SW 14 th street	↓	↓	↓
↓	↓	5A	709 - soil	709 SW 14 th street	↓	↓	↓
↓	↓	6A	711 - soil	711 SW 14 th street	↓	↓	↓
↓	↓	7A	713 - soil	713 SW 14 th street	↓	↓	↓
↓	↓	8A	715 - soil	715 SW 14 th street	↓	↓	↓
↓	↓	9A	soil	700 SW 14 th street	↓	↓	↓
↓	↓	10A	soil	704 SW 14 th street	↓	↓	↓

Collected By	Stephanie Villanella	Print	Date	2-19-15	Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	
Received By		Print	Date		Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	

TURN-AROUND-TIME	
Standard	5-7 Business Days
Rush	Nest Day
Immediate	Same Day

SAMPLE CONDITION	
Good	Good
Damaged	Damaged
S. Dam.	Significantly Damaged

SAMPLE TYPE	
Misc.	Miscellaneous Material
Surfacing	Surfacing Material
TSI	Thermal System Insulation

SAMPLE NOTES	Acceptable
METHOD OF SHIPMENT	Hand delivery
PAGE NUMBERS	1 of 1

MARSHALL ENVIRONMENTAL MANAGEMENT, INCORPORATED
 1601 SW 89TH STREET, SUITE A-100
 OKLAHOMA CITY, OK 73159
 PHONE: 405.616.0401 FAX: 405.681.6753
 EMAIL: marshenv@swbell.net

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION		REPORT TO		INVOICE TO	
PROJECT ID	0028-EN-021615	CLIENT/ COMPANY	City of Moore - Community Development	CLIENT/ COMPANY	
PROJECT TYPE	Environmental	ATTENTION	Jared Jakubowski	ATTENTION	Jared Jakubowski
PROJECT NAME	Royal Park Development Tract	TITLE	Associate Planner	TITLE	Associate Planner
PROJECT ADDRESS	301 North Broadway Moore, OK 73160	ADDRESS	301 North Broadway Moore, OK 73160	ADDRESS	301 North Broadway Moore, OK 73160
SITE CONTACT	Jared Jakubowski, Associate Planner	PHONE #		PHONE #	
PHONE #		MOBILE #		MOBILE #	
MOBILE #		ALTERNATE #		ALTERNATE #	
EMAIL ADDRESS		EMAIL ADDRESS		EMAIL ADDRESS	

SAMPLE IDENTIFICATION #			SAMPLE DESCRIPTION #	SAMPLE LOCATION	SAMPLE COMPOSITION		
LAB #	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0023	2-19-15	11A	Soil	708 - SW 14th st.	Brown	Good	Misc
↓	↓	12A	↓	712 - SW 14th st.	↓	↓	↓
↓	↓	13A	↓	716 - SW 14th st.	↓	↓	↓
↓	↓	14A	↓	720 - SW 14th st.	↓	↓	↓
↓	↓	15A	↓	724 - SW 14th street	↓	↓	↓
↓	↓	16A	↓	1701 - Maclaren St.	↓	↓	↓
↓	↓	17A	↓	1703 - Maclaren St.	↓	↓	↓
↓	↓	18A	↓	1705 - Maclaren St.	↓	↓	↓
↓	↓	19A	↓	1707 - Maclaren st.	↓	↓	↓
↓	↓	20A	↓	1709 - Maclaren st.	↓	↓	↓

Collected By	Stephanie Villanella	Print	Date	2-19-15	Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	
Received By		Print	Date		Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	

TURN-AROUND-TIME	
Standard	5-7 Business Days
Rush	Nest Day
Immediate	Same Day

SAMPLE CONDITION	
Good	Good
Damaged	Damaged
S. Dam.	Significantly Damaged

SAMPLE TYPE	
Misc.	Miscellaneous Material
Surfacing	Surfacing Material
TSI	Thermal System Insulation

SAMPLE NOTES	Acceptable
METHOD OF SHIPMENT	Hand delivery
PAGE NUMBERS	2 of 2

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SITE CONTACT	Jared Jakubowski, Associate Planner	PHONE #		PHONE #	
PHONE #		MOBILE #		MOBILE #	
MOBILE #		ALTERNATE #		ALTERNATE #	
EMAIL ADDRESS		EMAIL ADDRESS		EMAIL ADDRESS	

SAMPLE IDENTIFICATION #			SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
LAB #	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0023	2-19-15	21A	Soil	1711 - Maclaren St.	Brown	Good	Misc.
↓	↓	22A	↓	1713 - Maclaren St.	↓	↓	↓
↓	↓	23A	↓	1715 - Maclaren St.	↓	↓	↓
↓	↓	24A	↓	1717 - Maclaren St.	↓	↓	↓
↓	↓	25A	↓	1719 - Maclaren St.	↓	↓	↓
↓	↓	26A	↓	1721 - Maclaren St.	↓	↓	↓
↓	↓	27A	↓	1718 - Maclaren Street	↓	↓	↓
↓	↓	28A	↓	1716 - Lot - Maclaren St.	↓	↓	↓
↓	↓	29A	↓	1714 - Maclaren St.	↓	↓	↓
↓	↓	30A	↓	1708 - Maclaren St.	↓	↓	↓

Collected By	Stephanie Villanella	Print	Date	2-19-15	Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	
Received By		Print	Date		Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	

TURN-AROUND-TIME	
Standard	5-7 Business Days
Rush	Nest Day
Immediate	Same Day

SAMPLE CONDITION	
Good	Good
Damaged	Damaged
S. Dam.	Significantly Damaged

SAMPLE TYPE	
Misc.	Miscellaneous Material
Surfacing	Surfacing Material
TSI	Thermal System Insulation

SAMPLE NOTES	Acceptable
METHOD OF SHIPMENT	Hand delivery
PAGE NUMBERS	3 of 4

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PHONE #		MOBILE #		MOBILE #	
MOBILE #		ALTERNATE #		ALTERNATE #	
EMAIL ADDRESS		EMAIL ADDRESS		EMAIL ADDRESS	

SAMPLE IDENTIFICATION #			SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
LAB #	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0023	2-19-15	31A	soil	1708 1704 - Maclaren St.	Brown	Good	Misc.
		32A		1704 17			
		33A		1716 - House - Kent Circle			
		34A		1700 - Maclaren St.			
		35A		1705 - Janeway			
		36A		1709 - Janeway			
		37A		1713 - Janeway			
		38A		1719 - Janeway			
		39A		1723 - Janeway			
		40A		1731 - Janeway			

Collected By	Stephanie Villanella	Print	Date	2-19-15	Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	
Received By		Print	Date		Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	

TURN-AROUND-TIME	
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SAMPLE CONDITION	
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SAMPLE TYPE	
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Surfacing	Surfacing Material
TSI	Thermal System Insulation

SAMPLE NOTES	Acceptable
METHOD OF SHIPMENT	Hand delivery
PAGE NUMBERS	4 of 10

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SITE CONTACT	Jared Jakubowski, Associate Planner	PHONE #		PHONE #	
PHONE #		MOBILE #		MOBILE #	
MOBILE #		ALTERNATE #		ALTERNATE #	
EMAIL ADDRESS		EMAIL ADDRESS		EMAIL ADDRESS	

SAMPLE IDENTIFICATION #			SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
LAB #	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0023	2-19-15	40A	Soil	1735- Janeway	Brown	Good	MISC.
↓	↓	41A	↓	701-office → SW 17th	↓	↓	↓
↓	↓	42A	↓	700	↓	↓	↓
↓	↓	43A	↓	702	↓	↓	↓
↓	↓	44A	↓	704	↓	↓	↓
↓	↓	45A	↓	706	↓	↓	↓
↓	↓	46A	↓	708	↓	↓	↓
↓	↓	47A	↓	710 - SW 13th Street	↓	↓	↓
↓	↓	48A	↓	712	↓	↓	↓
↓	↓	49A	↓	714	↓	↓	↓

Collected By	Stephanie Villanella	Print	Date	2-19-15	Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	
Received By		Print	Date		Relinquished By	N/A	Print	Date	N/A
		Initials	Time				Initials	Time	

TURN-AROUND-TIME	
Standard	5-7 Business Days
Rush	Nest Day
Immediate	Same Day

SAMPLE CONDITION	
Good	Good
Damaged	Damaged
S. Dam.	Significantly Damaged

SAMPLE TYPE	
Misc.	Miscellaneous Material
Surfacing	Surfacing Material
TSI	Thermal System Insulation

SAMPLE NOTES	Acceptable
METHOD OF SHIPMENT	Hand delivered
PAGE NUMBERS	5 of 6

MARSHALL ENVIRONMENTAL MANAGEMENT, INCORPORATED
 1601 SW 89TH STREET, SUITE A-100
 OKLAHOMA CITY, OK 73159
 PHONE: 405.616.0401 FAX: 405.681.6753
 EMAIL: marshenv@swbell.net

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION		REPORT TO		INVOICE TO	
PROJECT ID	0028-EN-021615	CLIENT/ COMPANY	City of Moore - Community Development	CLIENT/ COMPANY	
PROJECT TYPE	Environmental	ATTENTION	Jared Jakubowski	ATTENTION	Jared Jakubowski
PROJECT NAME	Royal Park Development Tract	TITLE	Associate Planner	TITLE	Associate Planner
PROJECT ADDRESS	301 North Broadway Moore, OK 73160	ADDRESS	301 North Broadway Moore, OK 73160	ADDRESS	301 North Broadway Moore, OK 73160
SITE CONTACT	Jared Jakubowski, Associate Planner	PHONE #		PHONE #	
PHONE #		MOBILE #		MOBILE #	
MOBILE #		ALTERNATE #		ALTERNATE #	
EMAIL ADDRESS		EMAIL ADDRESS		EMAIL ADDRESS	

SAMPLE IDENTIFICATION #			SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
LAB #	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0023	2-19-15	50A	8011	710 - SW 13th	Brown	Good	MISC
		51A		711 - SW 13th			
		52A		709 - SW 13th			
		53A		707 - SW 13th			
		54A		705 - SW 13th			
		55A		703 - SW 13th			
		56A		701 - SW 13th			
		57A		1307 - Janeway			
		58A		1303 - Janeway			

Collected By	Stephanie Villanella	Print	Date	2-19-15	Relinquished By	N/A	Print	Date	N/A
Received By		Initials	Time		Relinquished By	N/A	Initials	Time	N/A

TURN-AROUND-TIME	
Standard	5-7 Business Days
Rush	Nest Day
Immediate	Same Day

SAMPLE CONDITION	
Good	Good
Damaged	Damaged
S. Dam.	Significantly Damaged

SAMPLE TYPE	
Misc.	Miscellaneous Material
Surfacing	Surfacing Material
TSI	Thermal System Insulation

SAMPLE NOTES	Acceptable
METHOD OF SHIPMENT	
PAGE NUMBERS	10 of 10

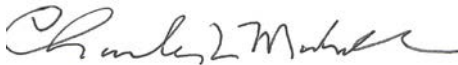
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR			
0023-21915-PLM-1A	February 19, 2015	701	Brown		5%	Root/Plant Matter
		SW 14th Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-2A	February 19, 2015	703	Brown	<1% Calcareous Material	5%	Root/Plant Matter
		SW 14th Street	Good		4%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-3A	February 19, 2015	705	Brown		5%	Root/Plant Matter
		SW 14th Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-4A	February 19, 2015	707	Brown		5%	Root/Plant Matter
		SW 14th Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-5A	February 19, 2015	709	Brown		5%	Root/Plant Matter
		SW 14th Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		

Dr. Charles Marshall, Ph.D		February 25, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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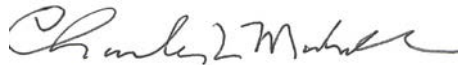
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
0023-21915-PLM-6A	February 19, 2015	711	COLOR	Brown	5%	Root/Plant Matter
		SW 14th Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
					5%	Aggregate Rock
0023-21915-PLM-7A	February 19, 2015	713	COLOR	Brown	1% Asphalt	5% Root/Plant Matter
		SW 14th Street	CONDITION	Good	1% Fibrous Glass	3% Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
					5%	Aggregate Rock
0023-21915-PLM-8A	February 19, 2015	715	COLOR	Brown	5%	Root/Plant Matter
		SW 14th Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
					5%	Aggregate Rock
0023-21915-PLM-9A	February 19, 2015	700	COLOR	Brown	5%	Root/Plant Matter
		SW 14th Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
					5%	Aggregate Rock
0023-21915-PLM-10A	February 19, 2015	704	COLOR	Brown	5%	Root/Plant Matter
		SW 14th Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
					5%	Aggregate Rock

Dr. Charles Marshall, Ph.D		February 25, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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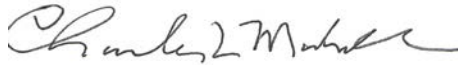
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
0023-21915-PLM-11A	February 19, 2015	708	COLOR	Brown	5%	Root/Plant Matter
		SW 14th Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-12A	February 19, 2015	712	COLOR	Brown	5%	Root/Plant Matter
		SW 14th Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-13A	February 19, 2015	716	COLOR	Brown	<1%	Chrysotile
		SW 14th Street	CONDITION	Good	5%	Root/Plant Matter
		Soil	TYPE	Miscellaneous	4%	Cellulose
			NOTE		45%	Quartz/Sand
					20%	Clay
			20%	Silt		
			5%	Aggregate Rock		
0023-21915-PLM-14A	February 19, 2015	720	COLOR	Brown	<1%	Chrysotile
		SW 14th Street	CONDITION	Good	5%	Root/Plant Matter
		Soil	TYPE	Miscellaneous	4%	Cellulose
			NOTE		45%	Quartz/Sand
					20%	Clay
			20%	Silt		
			5%	Aggregate Rock		
0023-21915-PLM-15A	February 19, 2015	724	COLOR	Brown	NO ASBESTOS DETECTED	
		SW 14th Street	CONDITION	Good	5%	Root/Plant Matter
		Soil	TYPE	Miscellaneous	5%	Cellulose
			NOTE		45%	Quartz/Sand
					20%	Clay
			20%	Silt		
			5%	Aggregate Rock		

Dr. Charles Marshall, Ph.D		February 25, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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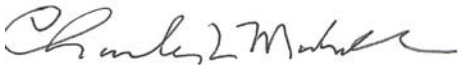
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED			
			COLOR	CONDITION				
0023-21915-PLM-16A	February 19, 2015	1701	Brown	Good	<1%	Insect Exoskeleton	5%	Root/Plant Matter
		Maclaren Street					4%	Cellulose
		Soil	Miscellaneous				45%	Quartz/Sand
							20%	Clay
							20%	Silt
						5%	Aggregate Rock	
0023-21915-PLM-17A	February 19, 2015	1703	Brown	Good			5%	Root/Plant Matter
		Maclaren Street					5%	Cellulose
		Soil	Miscellaneous				45%	Quartz/Sand
							20%	Clay
							20%	Silt
						5%	Aggregate Rock	
0023-21915-PLM-18A	February 19, 2015	1705	Brown	Good			5%	Root/Plant Matter
		Maclaren Street					5%	Cellulose
		Soil	Miscellaneous				45%	Quartz/Sand
							20%	Clay
							20%	Silt
						5%	Aggregate Rock	
0023-21915-PLM-19A	February 19, 2015	1707	Brown	Good	<1%	Tar Paper Felt	5%	Root/Plant Matter
		Maclaren Street					4%	Cellulose
		Soil	Miscellaneous				45%	Quartz/Sand
							20%	Clay
							20%	Silt
						5%	Aggregate Rock	
0023-21915-PLM-20A	February 19, 2015	1709	Brown	Good			5%	Root/Plant Matter
		Maclaren Street					5%	Cellulose
		Soil	Miscellaneous				45%	Quartz/Sand
							20%	Clay
							20%	Silt
						5%	Aggregate Rock	

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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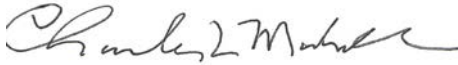
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
0023-21915-PLM-21A	February 19, 2015	1711	COLOR	Brown	5%	Root/Plant Matter
		Maclaren Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-22A	February 19, 2015	1713	COLOR	Brown	5%	Root/Plant Matter
		Maclaren Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-23A	February 19, 2015	1715	COLOR	Brown	5%	Root/Plant Matter
		Maclaren Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-24A	February 19, 2015	1717	COLOR	Brown	5%	Root/Plant Matter
		Maclaren Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-25A	February 19, 2015	1719	COLOR	Brown	5%	Root/Plant Matter
		Maclaren Street	CONDITION	Good	5%	Cellulose
		Soil	TYPE	Miscellaneous	45%	Quartz/Sand
			NOTE		20%	Clay
					20%	Silt
			5%	Aggregate Rock		

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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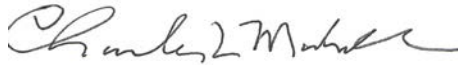
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0023-21915-PLM-266	February 19, 2015	1721	Brown		5%	Root/Plant Matter
		Maclaren Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-27A	February 19, 2015	1718	Brown		5%	Root/Plant Matter
		Maclaren Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-28A	February 19, 2015	1716	Brown	2% Fibrous Glass	5%	Root/Plant Matter
		Maclaren Street	Good	<1% Synthetic Fibers	2%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-29A	February 19, 2015	1714	Brown		5%	Root/Plant Matter
		Maclaren Street	Good		5%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		
0023-21915-PLM-30A	February 19, 2015	1708	Brown	2% Cementous Material	5%	Root/Plant Matter
		Maclaren Street	Good		3%	Cellulose
		Soil	Miscellaneous		45%	Quartz/Sand
					20%	Clay
					20%	Silt
			5%	Aggregate Rock		

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

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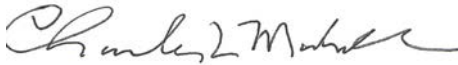
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PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0023-21915-PLM-31A	February 19, 2015	1704	Brown	Good	<1% Perlite	5% Root/Plant Matter
		Maclaren Street				4% Cellulose
		Soil	Miscellaneous			45% Quartz/Sand
						20% Clay
						20% Silt
					5% Aggregate Rock	
0023-21915-PLM-32A	February 19, 2015	1716	Brown	Good		5% Root/Plant Matter
		House - Kent Circle				5% Cellulose
		Soil	Miscellaneous			45% Quartz/Sand
						20% Clay
						20% Silt
					5% Aggregate Rock	
0023-21915-PLM-33A	February 19, 2015	1700	Brown	Good	<1% Animal Skeletal Matter	5% Root/Plant Matter
		Maclaren Street				5% Cellulose
		Soil	Miscellaneous			45% Quartz/Sand
						20% Clay
						20% Silt
					5% Aggregate Rock	
0023-21915-PLM-34A	February 19, 2015	1705	Brown	Good	1% Nylon Fibers	5% Root/Plant Matter
		Janeway				4% Cellulose
		Soil	Miscellaneous			45% Quartz/Sand
						20% Clay
						20% Silt
					5% Aggregate Rock	
0023-21915-PLM-35A	February 19, 2015	1709	Brown	Good		5% Root/Plant Matter
		Janeway				5% Cellulose
		Soil	Miscellaneous			45% Quartz/Sand
						20% Clay
						20% Silt
					5% Aggregate Rock	

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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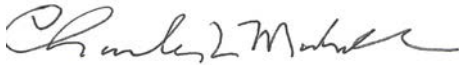
MARSHALL ENVIRONMENTAL MANAGEMENT, INC.

1601 SOUTHWEST 89TH ST., STE. 100-A
 OKLAHOMA CITY, OK 73159
 PHONE: 405.616.0401 FAX: 405.681.6753
 EMAIL: marshenv@swbell.net

BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
					COLOR			
0023-21915-PLM-36A	February 19, 2015	1713		Brown		5%	Root/Plant Matter	
		Janeway		Good		5%	Cellulose	
		Soil		Miscellaneous		45%	Quartz/Sand	
						20%	Clay	
						20%	Silt	
					5%	Aggregate Rock		
0023-21915-PLM-37A	February 19, 2015	1719		Brown		5%	Root/Plant Matter	
		Janeway		Good		5%	Cellulose	
		Soil		Miscellaneous		45%	Quartz/Sand	
						20%	Clay	
						20%	Silt	
					5%	Aggregate Rock		
0023-21915-PLM-38A	February 19, 2015	1723		Brown	1%	Plastic Tape	5%	Root/Plant Matter
		Janeway		Good		4%	Cellulose	
		Soil		Miscellaneous		45%	Quartz/Sand	
						20%	Clay	
						20%	Silt	
					5%	Aggregate Rock		
0023-21915-PLM-39A	February 19, 2015	1731		Brown	1%	Calcareous Material	5%	Root/Plant Matter
		Janeway		Good		4%	Cellulose	
		Soil		Miscellaneous		45%	Quartz/Sand	
						20%	Clay	
						20%	Silt	
					5%	Aggregate Rock		
0023-21915-PLM-40A	February 19, 2015	1735		Brown		5%	Root/Plant Matter	
		Janeway		Good		5%	Cellulose	
		Soil		Miscellaneous		45%	Quartz/Sand	
						20%	Clay	
						20%	Silt	
					5%	Aggregate Rock		

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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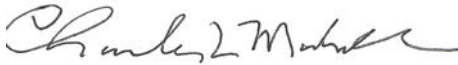
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
					COLOR			
0023-21915-PLM-41A	February 19, 2015	701			Brown		5%	Root/Plant Matter
		Office - SW 17th Street			Good		5%	Cellulose
		Soil			Miscellaneous		10%	Quartz/Sand
							60%	Clay
							15%	Silt
						5%	Aggregate	
0023-21915-PLM-42A	February 19, 2015	700			Brown		5%	Root/Plant Matter
		SW 13th Street			Good		5%	Cellulose
		Soil			Miscellaneous		10%	Quartz/Sand
							60%	Clay
							15%	Silt
						5%	Aggregate	
0023-21915-PLM-43A	February 19, 2015	702			Brown	<1% Asphalt/Tar	5%	Root/Plant Matter
		SW 13th Street			Good		4%	Cellulose
		Soil			Miscellaneous		10%	Quartz/Sand
							60%	Clay
							15%	Silt
						5%	Aggregate	
0023-21915-PLM-44A	February 19, 2015	704			Brown		5%	Root/Plant Matter
		SW 13th Street			Good		5%	Cellulose
		Soil			Miscellaneous		10%	Quartz/Sand
							60%	Clay
							15%	Silt
						5%	Aggregate	
0023-21915-PLM-45A	February 19, 2015	706			Brown		5%	Root/Plant Matter
		SW 13th Street			Good		5%	Cellulose
		Soil			Miscellaneous		10%	Quartz/Sand
							60%	Clay
							15%	Silt
						5%	Aggregate	

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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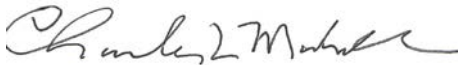
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0023-21915-PLM-46A	February 19, 2015	708	Brown	Good	Trace	5% Root/Plant Matter
		SW 13th Street				5% Cellulose
		Soil	Miscellaneous			10% Quartz/Sand
						60% Clay
						15% Silt
				5% Aggregate		
0023-21915-PLM-47A	February 19, 2015	710	Brown	Good		5% Root/Plant Matter
		SW 13th Street				5% Cellulose
		Soil	Miscellaneous			10% Quartz/Sand
						60% Clay
						15% Silt
				5% Aggregate		
0023-21915-PLM-48A	February 19, 2015	712	Brown	Good		5% Root/Plant Matter
		SW 13th Street				5% Cellulose
		Soil	Miscellaneous			10% Quartz/Sand
						60% Clay
						15% Silt
				5% Aggregate		
0023-21915-PLM-49A	February 19, 2015	714	Brown	Good	2% Concrete	5% Root/Plant Matter
		SW 13th Street				3% Cellulose
		Soil	Miscellaneous			10% Quartz/Sand
						60% Clay
						15% Silt
				5% Aggregate		
0023-21915-PLM-50A	February 19, 2015	716	Brown	Good	1% Concrete	5% Root/Plant Matter
		SW 13th Street				4% Cellulose
		Soil	Miscellaneous			10% Quartz/Sand
						60% Clay
						15% Silt
				5% Aggregate		

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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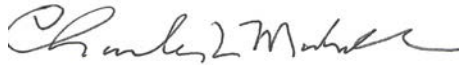
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BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED			
					COLOR					
0023-21915-PLM-51A	February 19, 2015	711	SW 13th Street	COLOR	Brown	<1%	Calcareous Material	5%	Root/Plant Matter	
				CONDITION	Good			4%	Cellulose	
				TYPE	Miscellaneous			10%	Quartz/Sand	
				NOTE				60%	Clay	
								15%	Silt	
				5%	Aggregate					
0023-21915-PLM-52A	February 19, 2015	709	SW 13th Street	COLOR	Brown			5%	Root/Plant Matter	
				CONDITION	Good			5%	Cellulose	
				TYPE	Miscellaneous			10%	Quartz/Sand	
				NOTE				60%	Clay	
								15%	Silt	
				5%	Aggregate					
0023-21915-PLM-53A	February 19, 2015	707	SW 13th Street	COLOR	Brown			5%	Root/Plant Matter	
				CONDITION	Good			5%	Cellulose	
				TYPE	Miscellaneous			10%	Quartz/Sand	
				NOTE				60%	Clay	
								15%	Silt	
				5%	Aggregate					
0023-21915-PLM-54A	February 19, 2015	705	SW 13th Street	COLOR	Brown			5%	Root/Plant Matter	
				CONDITION	Good			5%	Cellulose	
				TYPE	Miscellaneous			10%	Quartz/Sand	
				NOTE				60%	Clay	
								15%	Silt	
				5%	Aggregate					
0023-21915-PLM-55A	February 19, 2015	703	SW 13th Street	COLOR	Brown			5%	Root/Plant Matter	
				CONDITION	Good			5%	Cellulose	
				TYPE	Miscellaneous			10%	Quartz/Sand	
				NOTE				60%	Clay	
								15%	Silt	
				5%	Aggregate					

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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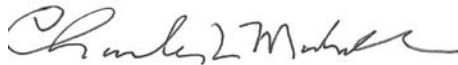
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**BULK ASBESTOS
 ANALYSIS REPORT**

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Id. No.	0028-EN-021615	Client		Client	City of Moore - Community Development
Project Name	Royal Park Development Tract				
Project Type	Environmental	Attention Title	Jared Jakubowski Associate Planner	Attention Title	Jared Jakubowski Associate Planner
Project Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160	Address	301 North Broadway Moore, OK 73160
Contact	Jared Jakubowski	Phone		Phone	
Phone		Fax		Fax	
Cell		Other		Other	
email		email		email	

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0023-21915-PLM-56A	February 19, 2015	701	Brown		5%	Root/Plant Matter
		SW 13th Street	Good		5%	Cellulose
		Soil	Miscellaneous		10%	Quartz/Sand
					60%	Clay
					15%	Silt
			5%	Aggregate		
0023-21915-PLM-57A	February 19, 2015	1307	Brown		5%	Root/Plant Matter
		Janeway	Good		5%	Cellulose
		Soil	Miscellaneous		10%	Quartz/Sand
					60%	Clay
					15%	Silt
			5%	Aggregate		
0023-21915-PLM-58A	February 19, 2015	1303	Brown		5%	Root/Plant Matter
		Janeway	Good		5%	Cellulose
		Soil	Miscellaneous		10%	Quartz/Sand
					60%	Clay
					15%	Silt
			5%	Aggregate		

Dr. Charles Marshall, Ph.D		February 26, 2015
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

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For Lab Use Only	
Lab No. <u>246793</u>	
<input checked="" type="radio"/> Accept	<input type="radio"/> Reject
Report Results (<input checked="" type="checkbox"/> one box)	
Quantem Website	
Other _____	

Contact Information	
Company: Marshall Environmental	Phone: (405) 616-0401
Contact: Rachel Woods	Cell Phone: (405) 315-4305
Account #:	E-mail: marshenv@swbell.net

Project Information	
Project Name: Royal Park	
Project Location: SW 19th and Telephone Rd Moore, OK	
Project ID: 0028-EN-020615	

Sampled By: _____ Name: **Rachel Woods** Date: **02/19/2015**

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
<i>RW</i>	<i>2/19/15 15:15</i>		<i>Stefanie</i>	<i>2/19/15 4:10</i>

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis		Units (<input checked="" type="checkbox"/> ONE box only)				
						Pb	PPM	Wt %	mg / l	µg / ft ²	µg / m ³	mg / cm ²
1	<i>01L</i>	<i>701 SW 14th</i>	<i>N/A</i>	<i>N/A</i>	<i>A</i> <input checked="" type="checkbox"/>	<i>X</i>	<i>X</i>					
2	<i>2L</i>	<i>703 SW 14th</i>										
3	<i>3L</i>	<i>705 SW 14th</i>										
4	<i>4L</i>	<i>707 SW 14th</i>										
5	<i>5L</i>	<i>709 SW 14th</i>										
6	<i>6L</i>	<i>711 SW 14th</i>										
7	<i>7L</i>	<i>713 SW 14th</i>										
8	<i>8L</i>	<i>715 SW 14th</i>										
9	<i>9L</i>	<i>706 SW 14th</i>										
10	<i>10L</i>	<i>704 SW 14th</i>										
11	<i>11L</i>	<i>708 SW 14th</i>										
12	<i>12L</i>	<i>T12 SW 14th</i>										

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette

TURNAROUND TIME	
<input type="checkbox"/>	Same Day
<input type="checkbox"/>	24 - Hour
<input type="checkbox"/>	3 - Day
<input checked="" type="checkbox"/>	5 - Day



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Lab No. 246793

Accept Reject

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Project Information

Company: **Marshall Environmental** Project Name: **Royal Park** Project Location: **SW 19th and Telephone Rd Moore, OK**

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis			Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes		
						Pb	PPM	Wt %	mg / l	µg /ft ²	µg / m ³	mg / cm ²	A	B		
13	13L	716 SW 14th	N/A	N/A	A	X	X									
14	14L	720 SW 14th	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
15	15L	724 SW 14th														
16	16L	1701 Maclaren														
17	17L	1703 Maclaren														
18	18L	1705 Maclaren														
19	19L	1707 Maclaren														
20	20L	1709 Maclaren														
21	21L	1711 Maclaren														
22	22L	1713 Maclaren														
23	23L	1715 Maclaren														
24	24L	1717 Maclaren														
25	25L	1719 Maclaren														
26	26L	1721 Maclaren														
27	27L	1718 Maclaren														
28	28L	1716 Maclaren														
29	29L	1714 Maclaren														
30	30L	1708 Maclaren														

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette



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Lab No. 246793

Accept Reject

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Project Information		
Company: Marshall Environmental	Project Name: Royal Park	Project Location: SW 19th and Telephone Rd Moore, OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis		Units (<input checked="" type="checkbox"/> ONE box only)						Sample Matrix Codes	
						Pb	PPM	Wt %	mg / l	µg / ft ²	µg / m ³	mg / cm ²	A	B	
31	31L	1704 Maclaren	N/A	N/A	A	X	X								
32	32L	1716 Keith Court													
33	33L	1700 Maclaren													
34	34L	1705 Janeway													
35	35L	1709 Janeway													
36	36L	1713 Janeway													
37	37L	1719 Janeway													
38	38L	1723 Janeway													
39	39L	1731 Janeway													
40	40L	1735 Janeway													
41	41L	701 SW 17th													
42	42L	700 SW 13th													
43	43L	702 SW 13th													
44	44L	704 SW 13th													
45	45L	706 SW 13th													
46	46L	708 SW 13th													
47	47L	710 SW 13th													
48	48L	712 SW 13th													

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette



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Lab No. 246793

Accept Reject

Project Information		
Company: Marshall Environmental	Project Name: Royal Park	Project Location: SW 19th and Telephone Rd Moore, OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis			Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes			
						Pb	PPM	Wt %	mg / l	µg /ft ²	µg / m ³	mg / cm ²	A	B			
49	13 49L	714 SW 13th	N/A	N/A	A	X	X										
50	14 50L	716 SW 13th	↓	↓	↓	↓	↓										
51	15 51L	711 SW 13th	↓	↓	↓	↓	↓										
52	16 52L	709 SW 13th	↓	↓	↓	↓	↓										
53	17 53L	707 SW 13th	↓	↓	↓	↓	↓										
54	18 54L	705 SW 13th	↓	↓	↓	↓	↓										
55	19 55L	703 SW 13th	↓	↓	↓	↓	↓										
56	20 56L	701 SW 13th	↓	↓	↓	↓	↓										
57	21 57L	1307 Janeway	↓	↓	↓	↓	↓										
58	22 58L	1303 Janeway	↓	↓	↓	↓	↓										
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 246793
Date Received: 02/19/15
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 2/27/2015

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: Royal Park
Location: SW 19th and Telephone Rd., Moore, OK
Project No.: 0028-EN-020615

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1L	Soil	Lead	<38.2	38.2	ppm	02/23/15 15:00	Soil EPA 7000B (1)
002	2L	Soil	Lead	<38.0	38	ppm	02/23/15 15:00	Soil EPA 7000B (1)
003	3L	Soil	Lead	<40.1	40.1	ppm	02/23/15 15:00	Soil EPA 7000B (1)
004	4L	Soil	Lead	<37.7	37.7	ppm	02/23/15 15:00	Soil EPA 7000B (1)
005	5L	Soil	Lead	<39.3	39.3	ppm	02/23/15 15:00	Soil EPA 7000B (1)
006	6L	Soil	Lead	<36.2	36.2	ppm	02/23/15 15:00	Soil EPA 7000B (1)
007	7L	Soil	Lead	<39.5	39.5	ppm	02/23/15 15:00	Soil EPA 7000B (1)
008	8L	Soil	Lead	<39.5	39.5	ppm	02/23/15 15:00	Soil EPA 7000B (1)
009	9L	Soil	Lead	<36.4	36.4	ppm	02/23/15 15:00	Soil EPA 7000B (1)
010	10L	Soil	Lead	<35.7	35.7	ppm	02/23/15 15:00	Soil EPA 7000B (1)
011	11L	Soil	Lead	<35.4	35.4	ppm	02/23/15 15:00	Soil EPA 7000B (1)
012	12L	Soil	Lead	<35.7	35.7	ppm	02/23/15 15:00	Soil EPA 7000B (1)
013	13L	Soil	Lead	<34.0	34	ppm	02/23/15 15:00	Soil EPA 7000B (1)
014	14L	Soil	Lead	<38.5	38.5	ppm	02/23/15 15:00	Soil EPA 7000B (1)
015	15L	Soil	Lead	<38.4	38.4	ppm	02/23/15 15:00	Soil EPA 7000B (1)
016	16L	Soil	Lead	<35.6	35.6	ppm	02/23/15 15:00	Soil EPA 7000B (1)
017	17L	Soil	Lead	<38.9	38.9	ppm	02/23/15 15:00	Soil EPA 7000B (1)

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 246793
Date Received: 02/19/15
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 2/27/2015

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: Royal Park
Location: SW 19th and Telephone Rd., Moore, OK
Project No.: 0028-EN-020615

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18L	Soil	Lead	<38.1	38.1	ppm	02/23/15 15:00	Soil EPA 7000B (1)
019	19L	Soil	Lead	<39.5	39.5	ppm	02/23/15 15:00	Soil EPA 7000B (1)
020	20L	Soil	Lead	<35.7	35.7	ppm	02/23/15 15:00	Soil EPA 7000B (1)
021	21L	Soil	Lead	<38.9	38.9	ppm	02/24/15 13:00	Soil EPA 7000B (1)
022	22L	Soil	Lead	<39.0	39	ppm	02/24/15 13:00	Soil EPA 7000B (1)
023	23L	Soil	Lead	<37.8	37.8	ppm	02/24/15 13:00	Soil EPA 7000B (1)
024	24L	Soil	Lead	<38.9	38.9	ppm	02/24/15 13:00	Soil EPA 7000B (1)
025	25L	Soil	Lead	<38.9	38.9	ppm	02/24/15 13:00	Soil EPA 7000B (1)
026	26L	Soil	Lead	<35.6	35.6	ppm	02/24/15 13:00	Soil EPA 7000B (1)
027	27L	Soil	Lead	<39.1	39.1	ppm	02/24/15 13:00	Soil EPA 7000B (1)
028	28L	Soil	Lead	<38.9	38.9	ppm	02/24/15 13:00	Soil EPA 7000B (1)
029	29L	Soil	Lead	<39.4	39.4	ppm	02/24/15 13:00	Soil EPA 7000B (1)
030	30L	Soil	Lead	<36.4	36.4	ppm	02/24/15 13:00	Soil EPA 7000B (1)
031	31L	Soil	Lead	<39.6	39.6	ppm	02/24/15 13:00	Soil EPA 7000B (1)
032	32L	Soil	Lead	<38.3	38.3	ppm	02/24/15 13:00	Soil EPA 7000B (1)
033	33L	Soil	Lead	<35.0	35	ppm	02/24/15 13:00	Soil EPA 7000B (1)
034	34L	Soil	Lead	<37.2	37.2	ppm	02/24/15 13:00	Soil EPA 7000B (1)

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EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



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Environmental Chemistry Analysis Report

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Acct. No.: A331

Project: Royal Park
Location: SW 19th and Telephone Rd., Moore, OK
Project No.: 0028-EN-020615

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	35L	Soil	Lead	<37.0	37	ppm	02/24/15 13:00	Soil EPA 7000B (1)
036	36L	Soil	Lead	<37.9	37.9	ppm	02/24/15 13:00	Soil EPA 7000B (1)
037	37L	Soil	Lead	<38.2	38.2	ppm	02/24/15 13:00	Soil EPA 7000B (1)
038	38L	Soil	Lead	<36.8	36.8	ppm	02/24/15 13:00	Soil EPA 7000B (1)
039	39L	Soil	Lead	<37.4	37.4	ppm	02/24/15 13:00	Soil EPA 7000B (1)
040	40L	Soil	Lead	<37.4	37.4	ppm	02/24/15 13:00	Soil EPA 7000B (1)
041	41L	Soil	Lead	<35.3	35.3	ppm	02/25/15 15:00	Soil EPA 7000B (1)
042	42L	Soil	Lead	<36.2	36.2	ppm	02/25/15 15:00	Soil EPA 7000B (1)
043	43L	Soil	Lead	<39.4	39.4	ppm	02/25/15 15:00	Soil EPA 7000B (1)
044	44L	Soil	Lead	<37.3	37.3	ppm	02/25/15 15:00	Soil EPA 7000B (1)
045	45L	Soil	Lead	<38.8	38.8	ppm	02/25/15 15:00	Soil EPA 7000B (1)
046	46L	Soil	Lead	<37.8	37.8	ppm	02/25/15 15:00	Soil EPA 7000B (1)
047	47L	Soil	Lead	<39.6	39.6	ppm	02/25/15 15:00	Soil EPA 7000B (1)
048	48L	Soil	Lead	<39.4	39.4	ppm	02/25/15 15:00	Soil EPA 7000B (1)
049	49L	Soil	Lead	<35.8	35.8	ppm	02/25/15 15:00	Soil EPA 7000B (1)
050	50L	Soil	Lead	<36.9	36.9	ppm	02/25/15 15:00	Soil EPA 7000B (1)
051	51L	Soil	Lead	<37.8	37.8	ppm	02/25/15 15:00	Soil EPA 7000B (1)

Note: Sample results have not been corrected for blank values.

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Acct. No.: A331

Project: Royal Park
Location: SW 19th and Telephone Rd., Moore, OK
Project No.: 0028-EN-020615

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
052	52L	Soil	Lead	<36.2	36.2	ppm	02/25/15 15:00	Soil EPA 7000B (1)
053	53L	Soil	Lead	<39.0	39	ppm	02/25/15 15:00	Soil EPA 7000B (1)
054	54L	Soil	Lead	<35.9	35.9	ppm	02/25/15 15:00	Soil EPA 7000B (1)
055	55L	Soil	Lead	<39.3	39.3	ppm	02/25/15 15:00	Soil EPA 7000B (1)
056	56L	Soil	Lead	<38.5	38.5	ppm	02/25/15 15:00	Soil EPA 7000B (1)
057	57L	Soil	Lead	<38.4	38.4	ppm	02/25/15 15:00	Soil EPA 7000B (1)
058	58L	Soil	Lead	<38.8	38.8	ppm	02/25/15 15:00	Soil EPA 7000B (1)

Authorized Signature: _____

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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Supplemental Report QAQC Results

QA ID: 12745
Test: Lead

Date: 2/23/2015
Matrix: Soil

Lab Number: 246793
Approved By: Benton Miller
Date Approved: 2/23/2015

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.7	5.5
FCV	4.5	4.8	5.5
ICV	0.9	0.99	1.1
RLVS	0.128	0.146	0.192


Duplicate Data:

Sample Number	Result	Duplicate	% RPD
246822-004	0.463	0.428	7.9

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
246793-001	0.000	2.000	1.794	89.7			
LCS-B2	0.000	5.433	4.389	80.8			
LCS-S1	0.000	5.412	4.693	86.7	4.590	84.8	2.2
LCS-S1	0.000	5.412	4.693	86.7	4.669	86.3	0.5
246822-004	0.463	2.000	2.433	98.5			

Authorized Signature: _____



Benton Miller, Analyst

Supplemental Report QAQC Results

QA ID: 12749

Test: Lead

Date: 2/24/2015

Matrix: Soil

Lab Number: 246793

Approved By: Benton Miller

Date Approved: 2/24/2015

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.6	5.5
FCV	4.5	4.5	5.5
ICV	0.9	1.09	1.1
RLVS	0.128	0.181	0.192


Duplicate Data:

Sample Number	Result	Duplicate	% RPD
246823-010	2.163	1.929	11.5

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-S1	0.000	5.488	4.637	84.5	4.636	84.5	0.0
LCS-S2	0.000	5.488	5.155	93.9	5.664	103.2	9.4
246793-037	0.035	2.000	2.288	112.6			

Authorized Signature: _____



Benton Miller, Analyst

Supplemental Report QAQC Results

QA ID: 12753
Test: Lead

Date: 2/25/2015
Matrix: Soil

Lab Number: 246793
Approved By: Benton Miller
Date Approved: 2/25/2015

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:


Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.2	5.5
FCV	4.5	5.4	5.5
ICV	0.9	0.92	1.1
RLVS	0.128	0.136	0.192

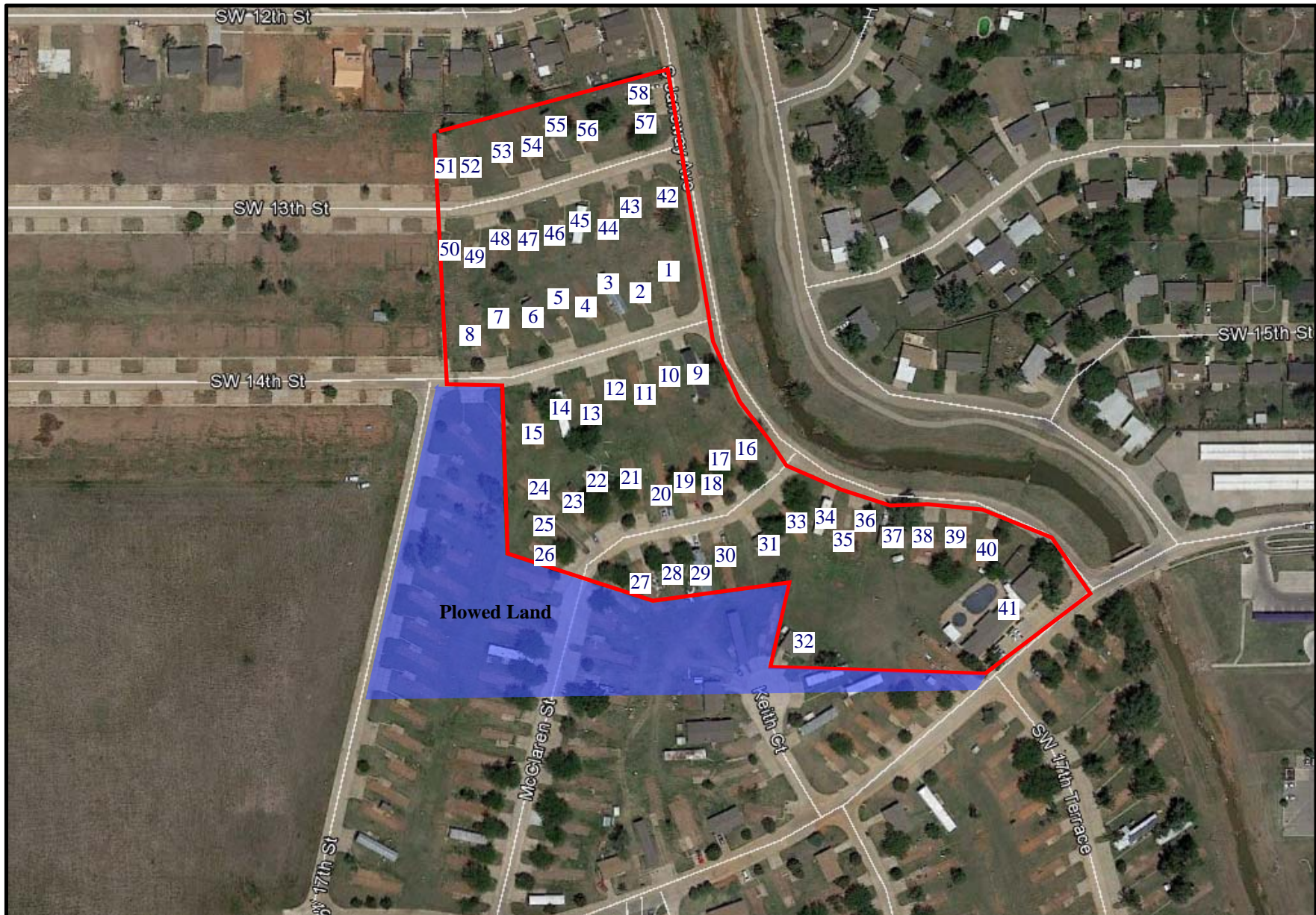
Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
246793-058	0.000	2.000	2.188	109.4			
LCS-S1	0.000	5.412	5.246	96.9	5.561	102.7	5.8

Authorized Signature: _____





Environmental Soil Sample Location Map
Royal Park Redevelopment Tract
Source: Google Maps Scale: Not to Scale

