

# LABORATORY TESTING HEAVY METALS ANALYSIS



## Project Information

<b>Project Name</b>	Air Blown Infill Infill Heavy Metals Analysis	
<b>Client Information</b>	Axial, a Westlake Company 210 Industrial Drive N Madison, MS 39110	
<b>Date</b>	February 19, 2019	
<b>Job no.</b>	94551/4933	
<b>Report Status</b>	Final	
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<b>Checked by</b>	Jeffrey Gentile Director of Operations	

### Notes:

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### Standard / Regulation:

The STC suggests that any toxicological test and analysis of infill for synthetic turf fields be performed according to European Standard EN 71-3 – Safety of Toys Part 3: Migration of certain elements. The analytical method for each metal can be found in the results table below.

### Requirements:

The target detection limits for each metal can be found in the results table below. The limits shown are per European Standard EN 71-3 – Safety of Toys Part 3: Migration of certain elements.

### Results:

All results were found to be below the limit criteria referenced above.

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Results Table:

Analyte	Analytical Method	*Target Detection Limit (mg/kg)	Sample Detection Limit (SDL) Based Result	PASS / FAIL
Aluminum	NF EN ISO 11885	70,000	<2.5 mg/kg	PASS
Antimony	NF EN ISO 11885	560	<5 mg/kg	PASS
Arsenic	NF EN ISO 11885	47	<5 mg/kg	PASS
Barium	NF EN ISO 11885	18,750	<2.5 mg/kg	PASS
Boron	NF EN ISO 17294-1 et 2	15,000	<25 mg/kg	PASS
Cadmium	NF EN ISO 11885	17	<0.5 mg/kg	PASS
Chromium III	NF EN ISO 11885	460	<0.1 mg/kg	PASS
Chromium VI	NF T 90-043	0.2	<0.1 mg/kg	PASS
Cobalt	NF EN ISO 11885	130	<0.5 mg/kg	PASS
Copper	NF EN ISO 11885	7,700	0.75 mg/kg	PASS
Lead	NF EN ISO 11885	160	<0.5 mg/kg	PASS
Manganese	NF EN ISO 11885	15,000	<0.5 mg/kg	PASS
Mercury	NF EN 13506	94	<5 mg/kg	PASS
Nickel	NF EN ISO 11885	930	<0.5 mg/kg	PASS
Selenium	NF EN ISO 11885	460	<5 mg/kg	PASS
Strontium	NF EN ISO 17294-1 et 2	56,000	<0.5 mg/kg	PASS
Soluble Tin (Sn)	NF EN ISO 17294-1 et 2	180,000	<2.5 mg/kg	PASS
Soluble Organic Tin	NF EN ISO 17294-1 et 2	12	<2.5 mg/kg	PASS
Zinc	NF EN ISO 17294-1 et 2	46,000	<2.5 mg/kg	PASS

\*Limits per European Standard EN 71-3 – Safety of Toys Part 3: Migration of certain elements.

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