



LABORATORY TESTING HEAVY METALS ANALYSIS



Project Information

Project Name	Envirofill Infill Heavy Metals Analysis	
Client Information	US Greentech 3607 Church Street Cincinnati, OH 45244	
Date	April 12, 2016	
Job no.	90796/882	
Report Status	Final	
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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	< 50 mg/kg	PASS
Antimony	NF EN ISO 11885	560	< 10 mg/kg	PASS
Arsenic	NF EN ISO 11885	47	< 5 mg/kg	PASS
Barium	NF EN ISO 11885	18,750	< 50 mg/kg	PASS
Boron	NF EN ISO 17294-1 et 2	15,000	< 50 mg/kg	PASS
Cadmium	NF EN ISO 11885	17	< 1 mg/kg	PASS
Chromium III	NF EN ISO 11885	460	< 10 mg/kg	PASS
Chromium VI	NF T 90-043	0.2	< 0.1 mg/kg	PASS
Cobalt	NF EN ISO 11885	130	< 10 mg/kg	PASS
Copper	NF EN ISO 11885	7,700	< 50 mg/kg	PASS
Lead	NF EN ISO 11885	160	< 10 mg/kg	PASS
Manganese	NF EN ISO 11885	15,000	< 50 mg/kg	PASS
Mercury	NF EN 13506	94	< 10 mg/kg	PASS
Nickel	NF EN ISO 11885	930	< 10 mg/kg	PASS
Selenium	NF EN ISO 11885	460	< 10 mg/kg	PASS
Strontium	NF EN ISO 17294-1 et 2	56,000	< 50 mg/kg	PASS
Extractable Tin (Sn)	NF EN ISO 17294-1 et 2	180,000	< 50 mg/kg	PASS
Extractable Organic Tin	NF EN ISO 17294-1 et 2	12	< 0.2 mg/kg	PASS
Zinc	NF EN ISO 17294-1 et 2	46,000	< 50 mg/kg	PASS

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

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