



# LABORATORY TESTING HEAVY METALS ANALYSIS



## Project Information

<b>Project Name</b>	TTII PLAY-SAFE 65 EPDM Infill Toxicology EN 71-3 Heavy Metals Analysis	
<b>Client Information</b>	Target Technologies International Inc. 8535 Eastlake Drive Burnaby, BC V5A 4T7	
<b>Date</b>	February 26, 2016	
<b>Job no.</b>	90734/820	
<b>Report Status</b>	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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Page 1 of 2



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## TTII PLAY-SAFE 65 EPDM Infill toxicology

### 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
Soluble Tin (Sn)	NF EN ISO 17294-1 et 2	180,000	<50 mg/kg	PASS
Soluble 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	1080 mg/kg	PASS

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

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Page 2 of 2

