

WEST COAST ANALYTICAL SERVICE, INC.

TierraCast
Attn: Steve Tierra

Job No: 74418
November 30, 2004

Lead by SOP 7040, Rev 8
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million ($\mu\text{g/g}$)

<u>Sample ID</u>	<u>Lead</u>
Ingot # OR 8 L 388965	179
Detection Limit:	0.09

Date Analyzed: 11-24-04

Note: a single small shaving was weighed and heated at reflux with 10 mL of 50% nitric acid in a covered pyrex beaker for 15 minutes. The mixture was cooled, 5 mL concentrated nitric acid was added, and the reflux continued for another 30 minutes, repeating if necessary until brown fumes were absent. The mixture was further digested by adding 2 mL portions of 30% hydrogen peroxide and heating until the appearance remained unchanged (a white residue remained). The mixture was cooled, internal standard added, diluted to 100 g with deionized water, and an additional 1:100 dilution made prior to ICPMS analysis.

Quality Control Summary

Sample: Ingot # OR 8 L 388965

<u>Analyte</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Average Result</u>	<u>Sample RPD</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>
Lead	179	140	159.5	24.5	241	398	99

Date Analyzed: 11-24-04

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WEST COAST ANALYTICAL SERVICE, INC.

TierraCast
Attn: Steve Tierra

Job No: 72875
September 24, 2004

Lead by SOP 7040, Rev 8 / EPA 3050B
Quantitative Analysis Report
Inductively Coupled Plasma-Mass Spectrometry

Parts Per Million ($\mu\text{g/g}$)

<u>Sample ID</u>	<u>Lead</u>
Part# 94-5561-10/1	258

Detection Limit: 0.02

Date Analyzed: 09-14-04

Note: a single bead was weighed and heated at reflux with 10 mL of 50% nitric acid in a covered pyrex beaker for 15 minutes. The mixture was cooled, 5 mL concentrated nitric acid was added, and the reflux continued for another 30 minutes, repeating if necessary until brown fumes were absent. The mixture was further digested by adding 3 mL portions of 30% hydrogen peroxide and heating until the appearance remained unchanged (a white residue remained). The mixture was cooled, internal standard added, diluted to 100 g with deionized water, and an additional 1:100 dilution made prior to ICPMS analysis.

Quality Control Summary

Sample: Laboratory Fortified Blank (LFB)

<u>Analyte</u>	<u>Blank Result</u>	<u>Amount Spiked</u>	<u>LFB Result</u>	<u>LFB % Rec</u>
Lead	ND	20	21.4	107

Date Analyzed: 09-14-04

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