



Forensic Analytical Laboratories, Inc

Hayward: 800/827-3274

Rancho Dominguez: 888/813-9417

Las Vegas: 702/784-0040

LEAD REGULATORY LEVELS

<p>Paint <i>HUD Guidelines "action levels"</i> 0.5% by weight = 5,000 ppm 1.0 mg/cm (XRF)</p>	<p>Air 50 µg/m : OSHA PEL 8 hour TWA 30 µg/m : OSHA "action Level" 8 hour TWA</p>
<p>Soils <i>EPA TSCA Section 403 Standard – January 2001</i> > 400 ppm Hazardous in play areas > 1,200 ppm Bare soil yard wide average</p> <p><i>California Title 17 "Lead contaminated soil"</i> ≥ 400 – 1000 ppm Hazardous in bare soil in areas where children play > 1,000 ppm Hazardous in all other areas</p>	<p>Dust <i>EPA TSCA Section 403 Standard - January 2001</i> ≥ 40 µg/ft Floors ≥ 250 µg/ft Interior window sills ≥ 400 µg/ft Window troughs</p> <p><i>California Title 17 "Lead contaminated dust"</i> ≥ 40 µg/ft Interior floor surfaces ≥ 250 µg/ft Interior horizontal window surfaces ≥ 400 µg/ft Exterior floor and exterior horizontal window surfaces</p>
<p>Water 15 ppb: US EPA Primary Drinking Water Standard</p>	
<p>Waste Total Threshold Limit Concentration (TTLIC), lead only: 1000 mg/kg Soluble Threshold Limit Concentration (STLC), lead only: 5.0 mg/L Toxicity Characteristic Leaching Procedure (TCLP), lead only: 5.0 mg/L</p>	

LEAD SAMPLING AND ANALYSIS

Matrix	Collection Information	Analytical Method
Paint	Collect 1 tablespoon (4 square inches) of paint. Scrape down to (but excluding) matrix material.	EPA 7420 (FLAA lead analysis) EPA 6010B (ICP multi-element analysis)
Air	Collect <i>personal samples</i> at 1-4 liters per minute on 37mm, 0.8µm pore size MCE cassettes, closed face. Collect <i>area samples</i> at 10 liters per minute on 37mm, 0.8µm pore size MCE cassettes, closed face.	NIOSH 7082 (FLAA lead analysis) NIOSH 7105 (GFAA lead analysis) NIOSH 7303 (ICP multi-element analysis)
Soil/ Bulk	Collect 1/2-cup soil/debris in pre-cleaned dry container.	EPA 7420 (FLAA lead analysis) EPA 6010B (ICP multi-element analysis)
Water	Collect 250ml in pre-cleaned HDPE bottle with HNO ₃ as preservative to pH <2.0. Draw as a 1 L first draw	Standard Methods 3113B (GFAA lead analysis) EPA 200.7 (ICP multi-element analysis)
Wipes	Collect 1 square foot area with approved wipe. Insert one wipe into clean tube. Submit field blank.	NIOSH 7082/OSHA ID-121 (FLAA lead analysis) NIOSH 7105 (GFAA lead analysis) NIOSH 7303/OSHA ID 125G (ICP multi-element analysis)
Waste Charac.	Collect representative sample (160 grams = 1/3 lb) of waste stream(s).	TTLIC EPA 7420/6010B (Total lead analysis) STLC EPA 7420/6010B (California-WET) TCLP EPA 7420/6010B (EPA 1311)

Please note all of these levels may vary due to local definitions and regulations. Please contact your local health department or lead hazard control program for local definitions and the most current local regulations. This information was compiled September 2010.