EPA Region 7 Laboratory Analysis Information

04/05/2019 08:52

ASR: 8209

Analysis Name: Mercury in Soil or Sediment
Analysis Request No 1

Analysis Short Name Hg S.23E **Parameter Class:** Metals
Matrix: Solid **Analysis Status:** Current

Analysis Summary:
This analysis is performed following RLAB Method 3121.23E which substantially meets the requirements of SW-846 Method 7473. Mercury is considered one of the most toxic of the elements. Mercury toxicity differs by the type of mercury; organic mercury compounds are most toxic, and inorganic mercury compounds are more toxic than elemental mercury. There have been cases of blindness, neurological disorders, and even death caused by people eating seed corn coated with a mercury fungicide. And many people were affected in Japan on the Minamata Bay in the late 1970s because of eating fish contaminated with mercury from a nearby plant. Mercury combines with the proteins in the body, and thus enzymes (which are proteins) do not work correctly for a body poisoned with mercury. A chemistry professor died in 1997 from absorbing a small amount of organic mercury through a glove.

Method: RLAB Method 3121.23E **Date Adopted:** 03/26/2018 **Date Replaced:**

Method Desc:
EPA Region 7 RLAB Method 3121.23E

Method Title:
Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation and Atomic Adsorption Spectrophotometry

Method Summary:
(Not Available)

Base Method	Title	Type
SW846 7473	Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry	Analysis

Capable Labs: **EPA (In-House)**
ESAT (In-House)
CLP (Out-Source)
REST (Out-Source)

Previous Method: RLAB Method 3121.23D **Date Adopted:** 08/30/2012 **Date Replaced:** 03/26/2018

Sample Holding Time 28 **Days** **Extract Holding Time:** 0 **Days** **No Of Containers:** 1

Container Type: 8 oz glass **Weight Type:** Dry **No Of Tags:** 1

Preservative: 4 Deg C

Sampling Info:
(Not Available)

Sampling Narative:
(Not Available)

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Report Flag			Analyte Name	CAS Number	TRL	Con Of Concern	Units
Default	**Requested**	**EPA**					
Yes	Yes	Yes	Mercury	7439-97-6	0.0004		mg/kg

Default Report Flag:	Yes	Analyte that is routinely reported from in-house analysis.
Requested Report Flag:	Yes	Result will be stored and reported.