

# RCRA & TCLP SAMPLING GUIDE

Parameters	Method	Sample Volume Water / Soil	Holding Time * Water / Soil	Container-Water Water / Soil	Preservative
<b>Metals Analyses:</b>					
Metals by ICP	6010B	100 ml 2 g	6 months	500 ml Plastic 4 oz Glass	HNO <sub>3</sub> None
Mercury by Cold Vapor	7470A/7471A	100 ml 0.2 g	28 days	500 ml Plastic 4 oz Glass	HNO <sub>3</sub> <6°C
Hexavalent Chromium	7195	40 ml 10 g	24 hours 48 hours	500 ml Plastic 4 oz Glass	<6°C <6°C
<b>Organic Analyses:</b>					
Chlorinated Herbicides	8151A	1000 ml 30 g	7 days 14 days	2-Liter Glass 9 oz Glass	<6°C
Glycols	8015M	10 ml 5 g	7 days 14 days	2-Liter Glass 9 oz Glass	<6°C, No Head Space
Organochlorine Pesticides (PCB)	8081A/8081	1000 ml 30 g	7 days 14 days	2-Liter Glass 9 oz Glass	<6°C
PCB (ppb)	8082	1000 ml 30 g	7 days 14 days	2-Liter Glass 9 oz Glass	<6°C
PCB-Transformer Oil	ASTM 4059	100 µl	NA	Glass vial	---
PCB-Waste Oil	600/4-81-045	1 g	30 days	Glass vial	---
PCB-Soil (<2.0 ppm)	8081M	10 g	14 days	4 oz Glass	<6°C
Semi-Volatiles (BNA)	8270C	1000 ml 30 g	7 days 14 days	2-Liter Glass 4 oz Glass	<6°C
Volatiles	8260B	5 ml 5 g	14 days 14 days	2-40ml Vial 4 oz Glass	<6°C, HCl, No Head Space <6°C, Minimize Head Space
<b>Waste Characterization Analyses:</b>					
Acidity	ASTM D1067B	5 g	NA	4 oz Glass	None
Alkalinity	ASTM D1067B	5 g	NA	4 oz Glass	None
Ash	ASTM D2974	20 g	NA	4 oz Glass	None
BTU	ASTM D240	2 g	14 days	4 oz Glass	None
Corrosivity (pH)	9040C/9045D	10 g	24 hours	4 oz Glass	None
Cyanide, Total	9010C	500 ml 25 g	14 days	1 Liter Glass 4 oz Glass	<6°C, NaOH (pH>12) <6°C
Extractable Organic Halogens (EOX)	9023	10 g	28 days	4 oz Glass	<6°C
Ignitability (Closed Cup)	1020B	50 ml / 50 g	ASAP	4 oz Glass	None, No Head Space
Ignitability (Open Cup)	ASTM D92	50 ml / 50g	ASAP	4 oz Glass	None, No Head Space
Ignitability (Pensky Martens)	1010A/ASTM D93	100 ml / 100g	ASAP	4 oz Glass	None, No Head Space

\* holding time is calculated from date collected

Parameters	Method	Sample Volume Water / Soil	Holding Time* Water / Soil	Container-Water Water / Soil	Preservative
Moisture	ASTM D2246	50 g	7 days	4 oz Glass	None
Paint filter	9095B	100 ml 100 g	NS	500 ml Glass 4 oz Glass	None
Phenols	9065	1000 ml 25 g	28 days	1 Liter Glass 4 oz Glass	<6°C, H <sub>2</sub> SO <sub>4</sub>
Physical Appearance	ASTM D4979	50 g	NA	4 oz Glass	None
Reactive Cyanide	9010 & Sect. 7.3.3	250 ml 10 g	14 days	4 oz Glass	<6°C
Reactive Sulfide	9030 & Sect. 7.3.4	250 ml 10 g	7 days	4 oz Glass	<6°C
Sulfide, Total	9030B	25 g	7 days	4 oz Glass	<6°C
Total Halogens (TX)	D808	10 g	28 days	4 oz Glass	<6°C
Total Organic Halogens (TOX)	9020B	250 ml	28 days	9 oz Glass	<6°C, H <sub>2</sub> SO <sub>4</sub>
Total Solids	2540B	50 g	7 days	4 oz Glass	<6°C
Water Reactivity	ASTM D5058C	50 g	NA	4 oz Glass	None

Parameters	Method	Sample Volume	Holding Time*	Container-Water	Preservative
TCLP Analyses: (18 hour extraction)					
TCLP(8)Metals	6010B/470A	1000 ml  50 g	Hg: 28 days to leach, 28 days to analyze after leach; ICP: 180 days to leach, 180 days to analyze after leach	1 Liter Glass  4 oz Glass	None
TCLP Volatiles	8260B	5 ml 5 g	14 days to leach, 14 days to analyze after leach	2-40 ml 2 oz Glass	<6°C, No Head Space
TCLP Semi-Volatiles	8270C	1000 ml 25 g	14 days to leach, 7 days to prep after leach, 40 days to analyze after prep	1 Liter Glass 4 oz Glass	<6°C
TCLP Pesticides	8081A	1000 ml 25 g	14 days to leach, 7 days to prep after leach, 40 days to analyze after prep	1 Liter Glass 4 oz Glass	<6°C
TCLP Herbicides	8151A	1000 ml 25 g	14 days to leach, 7 days to prep after leach, 40 days to analyze after prep	1 Liter Glass 4 oz Glass	<6°C

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