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Cluster Rule/MACT Analyses - Sample Reference Guide

Analyte	Matrix	Method	Sample Volume	Hold Time	**
Dioxin	Liquid	EPA 1613 B	2 Liters	None	A
	Sludge	EPA 1613 B	2 Liters	None	B
	Pulp (Wet)	EPA 1613 B	20 g Dry	None	B
	Paper or Dry Pulp	EPA 1613 B	20 g Dry	None	None
Chloroform	Final Effluent	EPA 624	2-40 mL/4 hrs.*	14 days	C
	Acid Sewer	EPA 624	2-40 mL/4 hrs.*	14 days	D
	Alkaline Sewer	EPA 624	2-40 mL/4 hrs.*	14 days	B
AOX	Final Effluent & Alkaline Sewer	EPA 1650C	500 mL	>3 days, <6 mo.	E
	Acid Sewer	EPA 1650C	500 mL	>3 days, <6 mo.	F
Chlorophenolics	Final Effluent	EPA 1653 A	2 Liters	30 days	G
	Alkaline Sewer	EPA 1653 A	2 Liters	30 days	G
	Acid Sewer	EPA 1653 A	2 Liters	30 days	H
Methanol	Effluent	NCASI 94.03	2 x 40 mL	30 days	I
	Prior to Clarifier	NCASI 94.03	2 x 40 mL	30 days	B
Methanol, Acetaldehyde, MEK, Propionaldehyde (HAPs)	Condensate	NCASI 99.01	2 x 40 mL	14 days	B

*Six grab samples per day will be composited. If flow proportional composting is needed, send the % volume of each sample. Usually AOX is performed on the final effluent, Dioxin and Chlorophenolics are performed on flow proportional combined sewer and Chloroform is performed on separate sewers.

** Preservation Key

A = < 4° C, neutralize residual Cl₂ with 1 N thiosulfate, If pH > 9 adjust pH to 7-9 with H₂SO₄

B = < 4° C

C = < 4° C, 2 drops concentrate HCl per vial

D = < 4° C, 10 mg thiosulfate

E = < 4° C, pH < 2 with HNO₃

F = < 4° C, 1 N thiosulfate, pH < 2.0 with HNO₃

G = < 4° C, pH < 2 with H₂SO₄

H = < 4° C, pH < 2 with H₂SO₄

I = < 4° C, pH 2.5 +/- 0.5, with H₂SO₄