



Sampling Requirements and Acceptance Criteria

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Sampling Requirements and Acceptance Criteria

Sampling Requirements

Project Size	Cubic Yards per 4:1 Composite Sample
0 - 2,499 cy	250 cy
2,500 - 4,999 cy	375 cy
5,000 - 7,499 cy	500 cy
7,500 cy - 10,000 cy	750 cy
>10,000 cy	1000 cy

Discrete samples are assigned a sampling frequency of 50 cubic yards per sample. The sampling frequency for 4:1 composite samples is found on the table above. Recology reserves the right to require the generator to perform additional analytical testing for any potential hazardous waste pursuant to the guidelines outlined in Chapter 11 of CCR Title 22. Please contact Recology to confirm sampling requirements and required testing. Analytical results must originate from a CELAP certified laboratory.

Soil Analysis Guidelines

Contaminant	Required Analyses	EPA Methods
Gasoline, Leaded	TPH – Gasoline BTEX Total Lead	EPA 5030/8015 EPA 8020/8260 TTLC-Lead
Gasoline, Unleaded	TPH – Gasoline BTEX	EPA 5030/8015 EPA 8020/8260
Diesel	TPH – Diesel BTEX	EPA 3550/8015 EPA 8020/8260
Jet Fuel (A, A-1, B, JP- 1,4,5,6,8)	TPH - Jet Fuel (A, A-1, B, JP- 1,4,5,6,8) BTEX	EPA 3550 or 5030/8015 EPA 8020/8260
Motor Oil	TPH – Motor Oil BTEX	EPA 3550/8015 EPA 8020/8260
Hydraulic Oil	TPH – Hydraulic Oil BTEX	EPA 3550/8015 EPA 8020/8260
Bunker Oil	TPH – Bunker Oil BTEX	EPA 3550/8015 EPA 8020/8260
Fuel Oil	TPH – Fuel Oil BTEX	EPA 3550/8015 EPA 8020/8260
Kerosene	TPH – Kerosene BTEX	EPA 3550/8015 EPA 8020/8260
Waste Oil	TPH – Waste Oil TPH – Diesel TPH – Gasoline VOC's SVOC's Luft 5 Metals (Cd, Cr, Pb, Ni, Zn) PCB's Dioxins (if PCP's are detected)	EPA 3550/8015 EPA 3550/8015 EPA 5030/8015 EPA 8260 EPA 8270 TTLC – Metals EPA 8080 EPA 8280

***This document serves as a guideline only. Additional testing may be required.
Please contact Recology to obtain waste stream specific sampling requirements.***

Sampling Requirements and Acceptance Criteria

Metals Acceptance Criteria (CCR Title 22)			
METAL	TTLIC (mg/kg)	STLC Threshold (10x STLC)	STLC (mg/l)
Antimony (Sb)	500	150	15
Arsenic (As)	500	50	5
Barium (Ba)	10,000	1,000	100
Beryllium (Be)	75	7.5	0.75
Cadmium (Cd)	100	10	1
Chromium (Cr)	2,500	50	560/5
Cobalt (Co)	8,000	800	80
Copper (Cu)	2,500	250	25
Lead (Pb)	1,000	50	5
Mercury (Hg)	20	2	0.2
Molybdenum (Mo)	3,500	3,500	350
Nickel (Ni)	2,000	200	20
Selenium (Se)	100	10	1
Silver (Ag)	500	50	5
Thallium (Tl)	700	70	7
Vanadium (Va)	2,400	240	24
Zinc (Zn)	5,000	2,500	250

Total concentrations cannot equal or exceed TTLIC values. If total concentrations equal or exceed 10x STLC, a WET (Waste Extraction Test) is required. WET results cannot equal or exceed the STLC values.

Total Petroleum Hydrocarbons Acceptance Criteria	
TPH Range	Threshold
Gasoline	>8,000 mg/kg
Diesel	>8,000 mg/kg
Jet Fuel	>8,000 mg/kg
Motor Oil	>25,000 mg/kg
Hydraulic Oil	>25,000 mg/kg
Bunker Oil	>25,000 mg/kg
Fuel Oil	>25,000 mg/kg
TRPH	>25,000 mg/kg
Oil & Grease	>25,000 mg/kg

Ignitibility and toxicity testing is required if the constituents above exceed the listed threshold.

RCI & Toxicity Acceptance Criteria (CCR Title 22)	
Non-Reactive	(Reactivity)
pH ≥ 2.0 or pH ≤ 12.5	(Corrosivity)
Flash Point ≥ 140°F (60°C)	(Ignitibility)
Acute Aquatic 96-hour	(Toxicity)
LC ₅₀ ≥ 500mg/L	

Potentially Toxic Substances (CCR Title 22)			
Substance	TCLP (mg/l)	STLC (mg/l)	TTLIC (mg/kg)
Aldrin	N/A	0.14	1.4
Benzene	0.5	N/A	N/A
Carbon tetrachloride	0.5	N/A	N/A
Chlordane	0.03	0.25	2.5
Chlorobenzene	100	N/A	N/A
Chloroform	6.0	N/A	N/A
Cresol	200	N/A	N/A
DDT, DDE,DDD	N/A	0.1	1
2,4-Dichlorophenoxyacetic Acid	10	10	100
1,4-Dichlorobenzene	7.5	N/A	N/A
1,2-Dichloroethane	0.5	N/A	N/A
1,1-Dichloroethylene	0.7	N/A	N/A
Dieldrin	N/A	0.8	8
2,4-Dinitrotoluene	0.13	N/A	N/A
Dioxin (2,3,7,8,-TCDD)	N/A	0.001	0.01
Endrin	0.02	0.02	0.2
Heptachlor	0.008	0.47	4.7
Hexachlorobenzene	0.13	N/A	N/A
Hexachlorobutadiene	0.5	N/A	N/A
Hexachloroethane	3.0	N/A	N/A
Kepone	N/A	2.1	21
Lead Compounds, Organic	N/A	N/A	13
Lindane	0.4	0.4	4
Methoxychlor	10	10	100
Methyl ethyl ketone (MEK)	200	N/A	N/A
Mirex	N/A	2.1	21
Nitrobenzene	2.0	N/A	N/A
Pentachlorophenol	100	1.7	17
PCB's (all Aroclors)	N/A	5	50
Pyridine	5.0	N/A	N/A
Tetrachloroethylene	0.7	N/A	N/A
Toxaphene	0.5	0.5	5
Trichloroethylene (TCE)	0.5	204	2040
2,4,5-Trichlorophenol	400	N/A	N/A
2,4,6-Trichlorophenol	2.0	N/A	N/A
2,4,5-Trichlorophenoxypropionic Acid	1	1	10
2,4,5-TP (Silvex)	1.0	N/A	N/A
Vinyl chloride	0.2	N/A	N/A

Total concentrations cannot equal or exceed TTLIC values. If total concentrations equal or exceed 20x TCLP, a TCLP is required. If total concentrations equal or exceed 10x STLC, a STLC is required. Soluble concentration from the WET cannot equal or exceed STLC values. TCLP results cannot equal or exceed the TCLP values.

Special Acceptance Provisions

Soil must be > 50% solids with no free liquids

Sludge from a wastewater treatment plant must be >15% solids for secondary treated sludge and >20% solids for primary treated sludge.