

SAMPLING CRITERIA FOR ORGANIC AND INORGANIC PARAMETERS [5/30/2008 Revision]

Organics

Test	Method ¹	Sample Size	Type Container	Preservative ²	Hold Time	Notes
GRO (water)	ME 4.2.17	2-40 ml	G, TLS ³	cool, 4 C, HCl pH<2	14 Days	trip blank may be needed
GRO (soil)	ME 4.2.17	2-40 ml or 60 ml	G, TLS ³	MeOH & cool, 4 C -or- freeze samples w/o MeOH	14 Days	see GRO in Soil SOP
DRO (water)	ME 4.1.25	1L	Amber G, TLS ³	cool, 4 C; HCl or sodium bisulfate	7 Days extraction	minimize plumbing grease contamination
DRO (soil)	ME 4.1.25	200g	G, TLS ³	cool, 4 C	14 Days extraction	
SVOC (water)	3510C or 3520C/ 8270D	1L	Amber G, TLS ³	cool, 4 C	7 Days extraction	2 extra bottles needed for MS/MSD; minimize phthalate contamination
SVOC (soil)	3540C or 3541/ 8270D	200g	Amber G, TLS ³	cool, 4 C	14 Days extraction	
PCB in water	3510C or 3520C/ 8082	1L	Amber G, TLS ³	cool, 4 C	7 Days extraction	2 extra bottles needed for MS/MSD
PCB in soil	8082	200g	Amber G, TLS ³	cool, 4 C	14 Days extraction	3550B extraction may be used with caution
Pesticides in water	3510C or 3520C/ 8081A	1L	Amber G, TLS ³	cool, 4 C	7 Days extraction	2 extra 1L bottles needed for MS/MSD
Pesticides in soil	3540C or 3541/ 8081A	200g	Amber G, TLS ³	cool, 4 C	14 Days extraction	3550B extraction may be used with caution
Herbicides in water	8151A	1L	Amber G, TLS ³	cool, 4 C	7 Days extraction	2 extra bottles needed for MS/MSD
Herbicides in soil	8151A	200g	Amber G, TLS ³	cool, 4 C	14 Days extraction	
Volatiles (water)	5030/ 8260B 524.2 [DW]	2-40 ml vials	G, TLS ³	cool 4 C, HCl pH<2	7 Days 14 Days	trip blank; de-chlorinate if needed; 2 extra vials needed for MS/MSD
Volatiles (soil)	5035/ 8260B	3 samples	encore sampler	cool, 4 C	48 hours	2 extra samples needed for MS/MSD
or	5035/ 8260B	3-40 ml vials, 5g in each vial	G, TLS ³	cool, 4 C; sodium bisulfate soln. in 2 vials and methanol in 1 vial	14 days	2 extra vials needed for MS/MSD; acetone may be generated as an artifact
or	8260B	3-40 ml vials	G, TLS ³	freeze	14 days	2 extra 1L vials needed for MS/MSD; EPA Region 1 guidance 5g in each vial

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Metals

Test	Method ¹	Sample Size	Type Container	Preservative	Holding Time	Notes
Dissolved metals	6010C, 6020A or 7010	1 L	cube cont.	HNO ₃ to pH<2	6 Mos.	Filter on site
Total metals in water	6010C, 6020A or 7010 200.7, 200.8, & 200.9 for drinking water	1 L	cube cont.	HNO ₃ to pH<2	6 Mos.	For RCRA 8 1L includes mercury
Total metals in soil	6010C, 6020A or 7010	200g	Whirlpack	none	6 Mos.	
Dissolved Mercury	7470A 245.1 [DW]	1 L	cube cont.	HNO ₃ to pH<2	28 Days	Filter on site
Total Mercury in water	7470A	1 L	cube cont.	Cool 4 C ; HNO ₃ to pH<2	28 Days	
Total Mercury in soil	7471B	200g	Whirlpack	Cool 4 C	28 days	

TCLP

Test	SW 846 Method	Sample Size	Type Container	Preservative	Hold Time
TCLP-VOC	1311/ 8260B	4 oz	G, TLS ³	cool, 4 C	NA
TCLP-Metals	1311/ 6010C or 7010/7470A	4 oz	G	none	NA
TCLP – herbicides	1311/8151A	1 L	G, TLS ³	cool, 4 C	NA

MISC.

Test	Method ¹	Sample Size	Container	Preservative	Hold Time	Notes
Flash point	1010, 1020A	4 oz	G, TLS ³	cool, 4 C	NA	
Maine Waste Oil Parameters ⁴		2 4 oz amber	G, TLS ³	none	NA	
pH ⁵	9040C, 9041A, 9045D	4 oz	G	none	NA	
Bacteria (water)	As approved by EPA for Drinking or Waste Water	200 ml	Sterilized	Cool 4 C	30 hours	Use gloves!

Notes:

- SW 846 methods, except as noted
- For chlorinated water supplies, VOC and SVOC samples must be dechlorinated with sodium thiosulfate or ascorbic acid prior to acid preservation.
- TLS = Teflon lined cap
- Maine Waste Oil Parameters include PCBs, flash point, total Halogens, arsenic, cadmium, chromium, and lead
- For situations where the material is very light (e.g. fly ash, feathers, etc.) please provide more material than a 4-oz jar.