

Analytical Procedures For Background and Pilot Clean up Studies

Media	Sampling Points	Analytical Parameters	Sampling Method Proposed	Description
Settled Dust Porous Soft surfaces	Carpets, fabric furniture or drapery in areas of activity (living rooms, family rooms)	Asbestos	ASTM D 5755-95	This is a micro vacuuming method. Three co-located samples will be collected from each location.
		Lead	ASTM E 1973-99	This is a micro vacuuming method. Three co-located samples will be collected from each location.
Settled Dust Non-porous Hard	tables or counters and bare floors, ceilings and walls in areas-of-activity (living	Asbestos	ASTM D 6480-99	Wipe Samples
		Lead	HUD Appendix 13.1	Wipe Samples
		Dioxins	ASTM D 6661-01	Wipe Samples
		PAHs	ASTM D 6661-01	Wipe Samples
		Total Dust	HUD Appendix 13.1**	Wipe Sample collected at one location per unit.
		Silica, calcite, gypsum	HUD Appendix 13.1**	Wipe Samples. All parameters will be collected on one wipe.
		MMVF	ASTM D 6480-99	Samples will be combined with the asbestos sampling.
Indoor Air	Areas of known activity (living rooms, family rooms)	Asbestos	NIOSH 7400	Air pump operated at 10L/min for 8 hours to achieve the COPC wkgoup Practical Quantitation Limit (PQL)
		Lead	NIOSH 7300	Air pump operated at 10L/min for 8 hours to achieve the COPC wkgoup PQL
		PAHs	NIOSH 5515	Air pump operated at 2L/min for 8 hours. Pilot Clean-up study only for worst case scenarios.
		Dioxins	TO-9 (Modified for indoor air)	Air pump operated at 25L/min for 35 hours. This modification is not a proven method. To be conducted during the Pilot Clean-up study only for worst case scenarios.
	HVAC systems and AC	Silica, calcite, gypsum	NIOSH 7500	Air pump operated at 2.5L/min for 8 hours to achieve the COPC wkgoup PQL
		MMVF	NIOSH 7400	Assumed that it behaves the same as asbestos, samples will be combined with the asbestos sampling.
Bulk Dust	units (collection of bulk dust sample from the unit air filters). Background study only.	Asbestos	Bulk Sample	Bulk samples will be collected from HVAC or AC window type unit filters, shaken into a plastic bag and transferred into the sample container.
		Lead	Bulk Sample	(If the volume required is not sufficient for all analyses, the sample will be analyzed for asbestos only.
		PAHs	Bulk Sample	(If the volume required is not sufficient for all analyses, the sample will be analyzed for asbestos only.

Kelly McKinney - WTCindrain	sample.xls	Bulk Sample	(If the volume required is not sufficient for all analyses, the sample will be analyzed for asbestos only.)	Page 2
	Silica, calcite, gypsum	Bulk Sample	(If the volume required is not sufficient for all analyses, the sample will be analyzed for asbestos only.)	
method is available.	MMVF	Bulk Sample	(If the volume required is not sufficient for all analyses, the sample will be analyzed for asbestos only.)	

Analytical Method Proposed
ASTM D 5755-95
SW-846 6010B
ASTM D 6480-99 (wipe)
SW-846 6010B
ASTM 6661-01/SW-846 8290
ASTM 6661-01/SW-846 8270C
No Formal Method (NIOSH 7500 Modified)
NIOSH 7500 (XRD)
EMSL MSD.0300
PCM NIOSH 7400 followed by TEM AHERA method.
SW-846 6010B
SW-846 8270 (Analytical method with be modified to achieve the COPC wkgroup PQL
SW-846 8290
NIOSH 7500 (XRD)
EMSL MSD.0300
PLM NYS 198.1 followed by TEM NYS 198.4
SW-846 6010B
SW-846 8270

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NIOSH 7500 (XRD)	
PLM NYS 198.1/EMSL MSD.0300	