

**ENVIRONMENTAL SOIL MANAGEMENT, INC.  
Pre Acceptance Analytical Plan (PAP)**

**MATERIAL ANALYTICAL REQUIREMENTS**

Analytical requirements for material acceptance at ESMI are dependent on site history and contaminant. ESMI's analytical plan does not negate the generators responsibility to properly characterize the material prior to disposal. Deviation from prescribed sampling protocols, analytical parameters or methods may require re-sampling or re-analyzing. The following lists the minimum analytical requirements by contaminant. Additional analysis may be required after site history review.

CONTAMINANT	TPH	TOTAL VOCS <sup>1</sup>	TOTAL SVOCS <sup>1</sup>	TOTAL METALS <sup>1</sup>	PCBs	IGN	Total Sulfur	REACTIVE Cn/S
SW-846 METHOD	GC/FID	8260	8270	RCRA 8	8080	1010		CHPT. 7
Virgin fuels and oils (Gasoline, diesel, #2, etc.)	X			Pb <sup>3</sup>				
# 4 and # 6 fuel oils	X	X <sup>2</sup>	X <sup>2</sup>	Pb <sup>3</sup>				
Used oils, lubricants and greases	X	X		X				
Electrical oils	X			Pb <sup>3</sup>	X			
Coal tars, coal, pitch, tar, asphalt emulsion	X	X	X	X			X	X
Unused petroleum solvents	X	X	X	Pb <sup>3</sup>		X		
Used Petroleum Solvents	X	X	X	X		X		
Waxes, esters, amides	X	X	X	Pb <sup>3</sup>				
Unused animal/vegetable oil	X			Pb <sup>3</sup>				
Used animal/vegetable oil	X			X				
Urban Fill	X	X	PAHs only	X				

<sup>1</sup>If the total concentration of any constituent exceeds the TCLP hazardous waste level by the ratio 20:1, TCLP analysis for that constituent is required.

<sup>2</sup>Frequency required for these tests is one per 500 tons.

<sup>3</sup>Total lead analysis is required for soils originating from urban areas or where leaded gas may have been an issue.

**REQUIRED SAMPLING PROTOCOL**

Based on the anticipated quantity of material to be shipped to ESMI, the following number of composite samples is required:

Quantity (tons)	No. of Composite Samples
<2000	one sample every 200 tons
>2000	10 plus one additional for every 500 tons

Stockpiled soils shall be sampled by removing the first 12 inches of soil at a given sample location. Each required composite sample should be comprised of 8 grab samples. In-situ sampling shall be performed by dividing the total area to be excavated into equal sections and locating a boring or test pit as close to the center of the section as possible. Composite samples from borings shall be comprised of core samples collected at no greater than 2-foot intervals from the soil column.