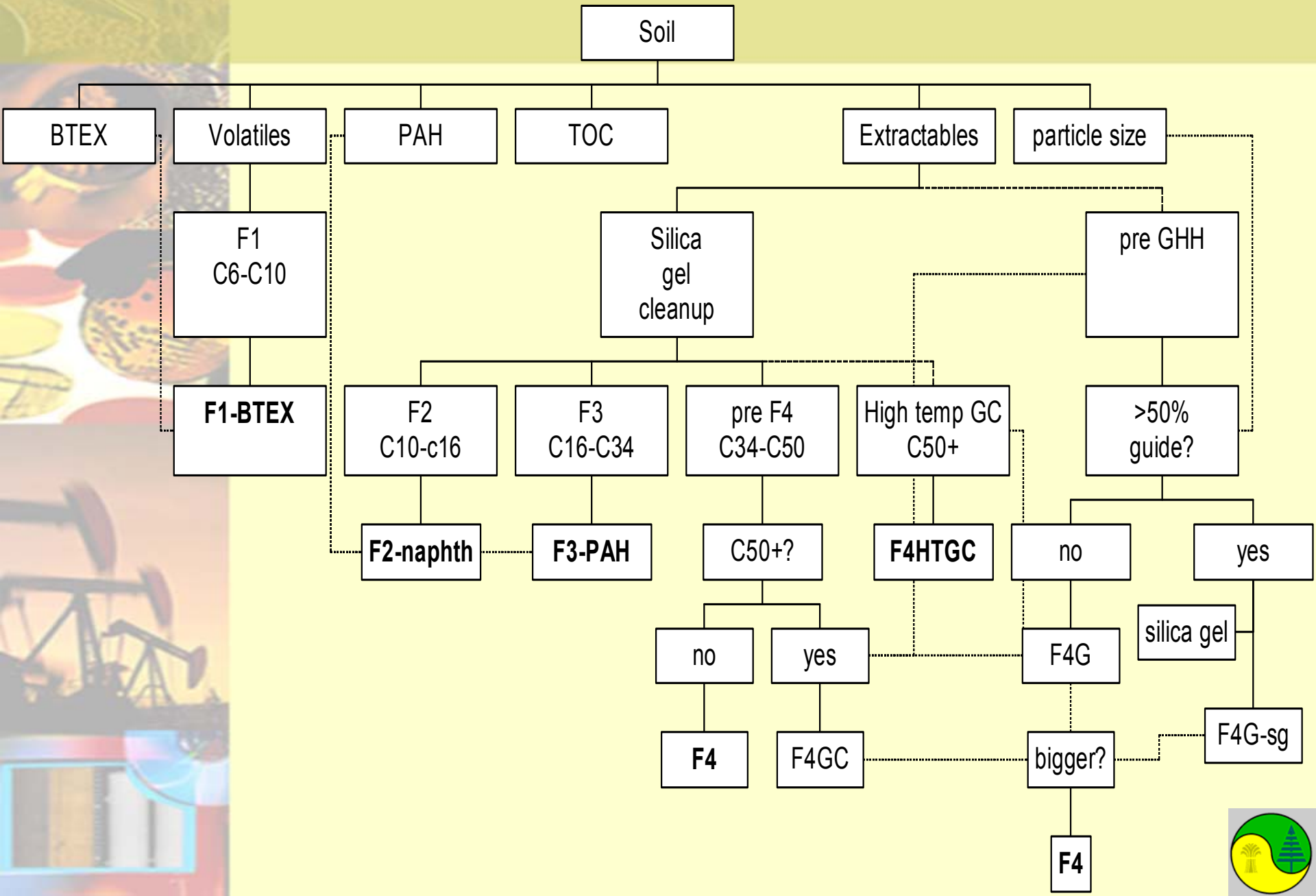




# CCME CWS

Norwest Labs Experience





# Method

- Recognized need to follow the prescribed method
  - No modifications -- AENV
  - High variability
  - Clients



# Action

- Build a dedicated CCME lab
- Audited to the method as written
- Accredited to method as written



# CCME -- Lab



# CCME -- soxhlet



# Various Product Types

LUBRICATING OIL

C34

F1

C10

F2

C16

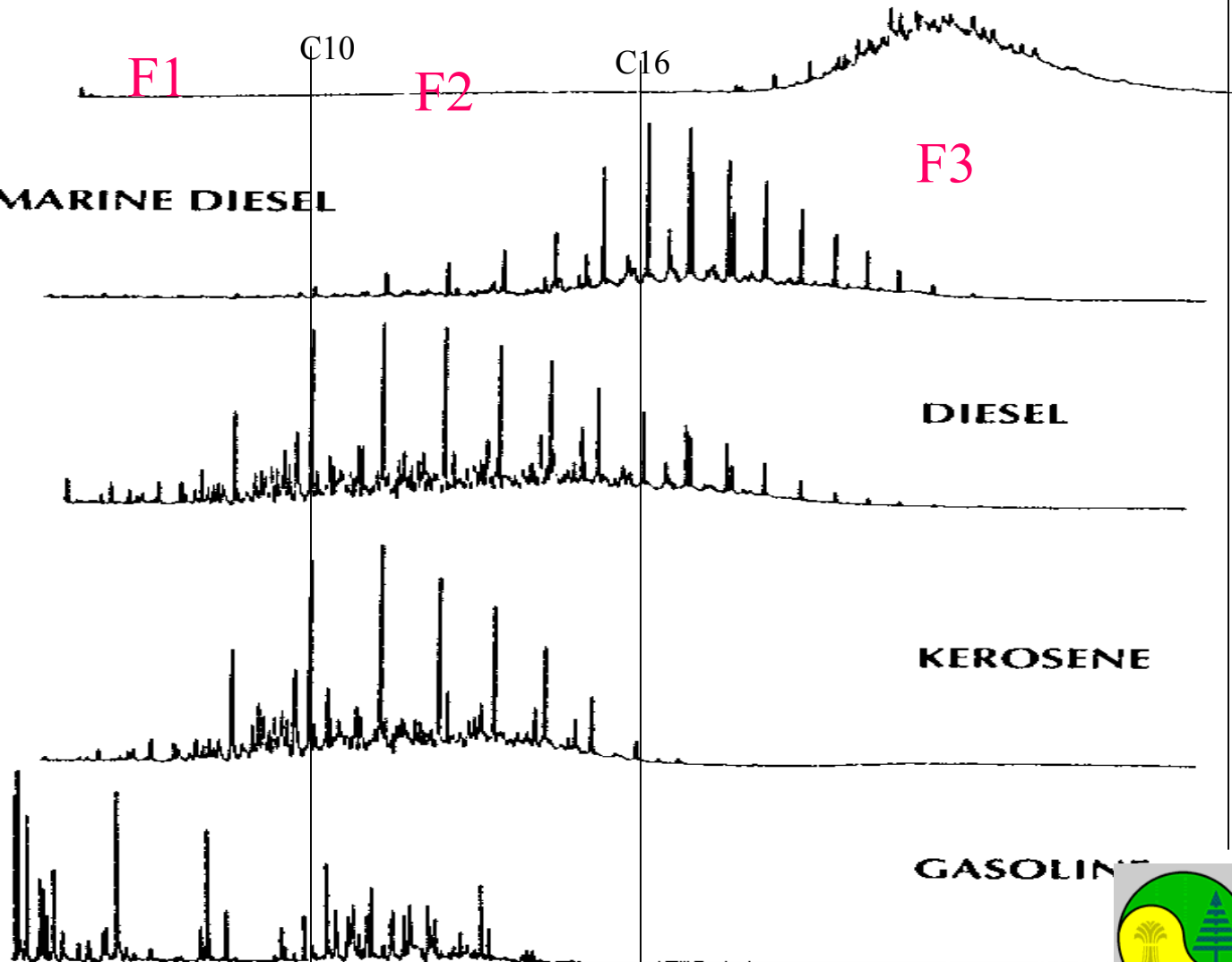
MARINE DIESEL

F3

DIESEL

KEROSENE

GASOLINE



# CCME -- C50+





# C50+ Assessment

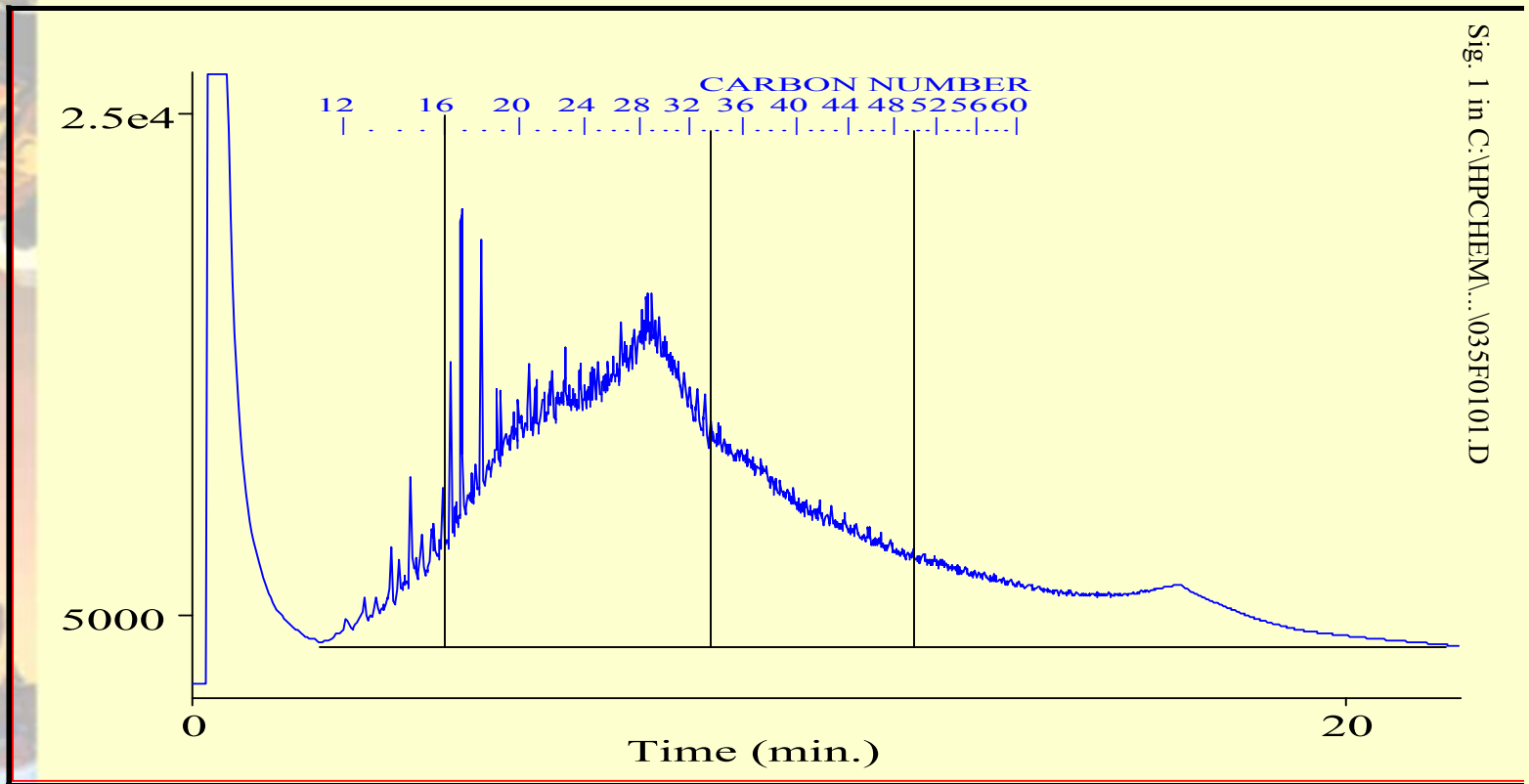
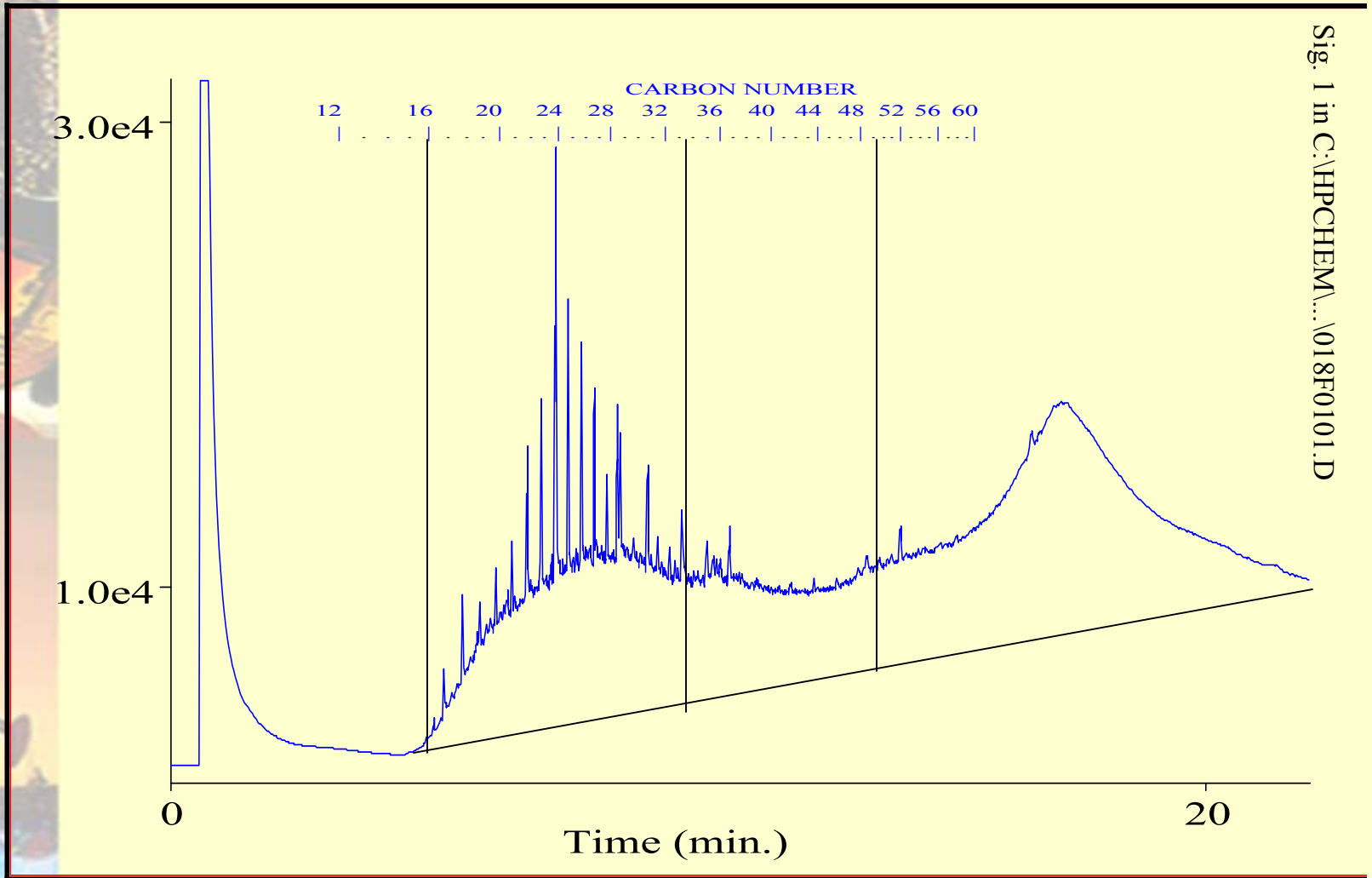


Fig. 1 in C:\HPCHEM...\035F0101.D



# GHH - fractions

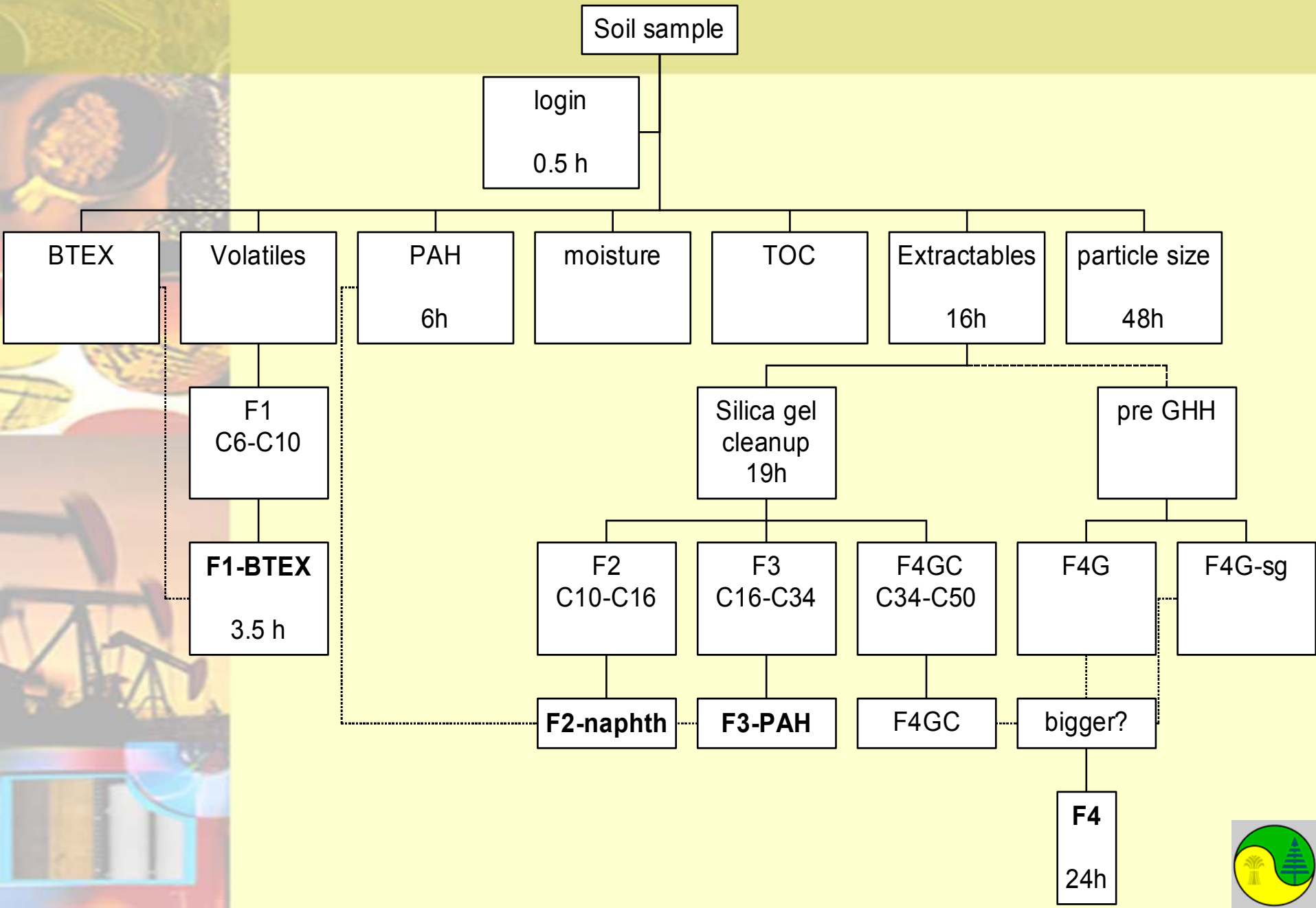


# Sampling and holding times

- Wide-mouth glass jar with Teflon lid
- no headspace, cool, no preservation
- extract for F1(C6-C10) within
  - 48 h of sample receipt, or
  - 7 days from sample collection
- other fractions
  - 14 days from sample receipt



# CCME



# Pros and cons

- Can be done
- set up as routine as possible
- Takes longer (2x at least)
- more labour intensive
- more expensive



# Results

- Educate clients about prescribed and performance based elements
- Ensure clients they are getting the ‘full’ analysis
  - what is the ‘full’ analysis?
  - BTEX by P&T or by Headspace?
  - PAHs included?
  - F4 determination?



# CCME -- concentration

