New Mexico Oil Conservation Commission Pit Rule Hearing, January 9, 2013

- Clay Robinson, PhD
- Senior Soil Scientist, Stetson Engineers
- Former Professor of Soil Science, West Texas A&M University
- Certified Professional Soil Scientist
- Licensed Professional Geoscientist (Texas)

BEFORE THE OIL CONSERVATION COMMISSION CASE NO. 14784 NMOGA EXHIBIT 26 JANUARY 9, 2013 **Certified Professional Soil Scientist**

- Core: soil genesis/morphology/classification; soil chemistry/mineralogy; soil fertility/ nutrient management; soil physics; soil biology/ecology; soils/land use management
- Supporting: agricultural sciences; biological/ ecological sciences; chemistry/mathematics/ physics/statistics, communications, geoscience; human health and land use; and water science.
- 2 exams: knowledge, professional practice
- Experience

EPA 300.0 Determination of inorganic anions (including chlorides) by ion chromatography

mg/L	mg/kg
Drinking water	Solids (after extraction)
Surface water	
Groundwater	
Reagent water	
Wastewater	
Leachates	



EPA SW-846, Method 1312 Synthetic Precipitation Leaching Procedure

- Determine *mobility* of organic and inorganic analytes present in liquids, soils, and wastes
- Liquid- or mixed-phase wastes









EPA 300.0 vs. SW-846, Method 1312

300.0, Soil

Dry solid material (11.7) – dried at 105° C to constant mass, 12 to 24 h Known dry mass allows mg/L to mg/kg conversion.

Solids remain on filter after pressure filtration to 50 psi (7.1.1). Water remains in solids. Method does not provide dry mass needed to convert mg/L to mg/kg

1312, Pit Contents

Determination of inorganic anions by ion chromatography, including Chloride, in

300.0	300.1
Drinking water	Finished drinking water
Surface water	Surface water
Groundwater	Groundwater
Reagent water	Reagent water
Wastewater	
Leachates	
Solids (after extraction)	

EPA 300.0 vs. EPA 300.1

300.1

Specific purpose: detect lower concentrations *Not intended for solids,* no extraction

ratio specified

Solids (dry) extraction ratio specified, allows volume to mass conversion

General purpose

