



Technical Memo

Special New Jersey Groundwater Testing Requirements

Updated: September 11, 2013

To reliably reach the detection level requirements of New Jersey's Groundwater Quality Standards (GWQS) for certain compounds, IAL must perform additional or alternative test procedures.

If analysis of any compounds listed below is required for groundwater, these test requirements must be clearly communicated to IAL. In order to provide the correct sampling bottles and analyses, this information must be communicated when placing bottle orders and on IAL's Chain of Custody (COC). This ultimately will help avoid delays, quick response testing costs, and the possible need to resample.

1. TCL Volatile Compounds Ethylene dibromide (EDB)* and/or 1,2-Dibromo-3-chloropropane

***At Leaded/Aviation Gasoline sites, ONLY EDB is required**

GWQS TEST REQUIREMENT: SW-846 Method 8011

WRITE ON COC: "TCL VO + 8011"

BOTTLES NEEDED: 4-40mL vials, HCl preservative

NOTE: Results reported in the "Volatile Organic" results section

2. TCL Volatile Compound 1,4-Dioxane

GWQS TEST REQUIREMENT: SW-846 Method 8270 (BN/BNA)

WRITE ON COC: "TCL BN (or BNA) + 1,4-Dioxane" OR "TCL BN 1,4-Dioxane only"

BOTTLES NEEDED: 2-1L amber jars

NOTE: Results reported in the "Semivolatile Organics" results section

3. TCL Low Level Polycyclic Aromatic Hydrocarbon (PAH)/Base Neutral (BN) Compounds:

<i>Benz(a)anthracene</i>	<i>Benzo(b)Fluoranthene</i>	<i>Indeno(1,2,3-cd)Pyrene</i>
<i>Benzo(a)Pyrene</i>	<i>Benzo(k)fluoranthene</i>	<i>Hexachlorobenzene</i>
	<i>Dibenz(a,h)anthracene</i>	

GWQS TEST REQUIREMENT: SW-846 Method 8270 SIM (Selected Ion Mode)

WRITE ON COC: "TCL BN (or BNA) + SIM" OR "TCL PAH + SIM"

BOTTLES NEEDED: 2-1L amber jars

As always, please note that contaminated samples may require laboratory dilution which may elevate detection levels above criteria. Please refer to New Jersey's Technical Requirements for Site Remediation and/or your approved site specific Quality Assurance Plan for guidance.

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