



# ENVIRONMENTAL ASSESSMENT OF EXPLOSIVES IN SOIL SAMPLES

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Detecting and analyzing explosives is a crucial aspect of forensic, environmental, and security work. ALS Laboratories has developed and accredited analytical technique capable of identifying nearly 20 explosive compounds in soil samples.

Analyzing explosive residues in soils is crucial for environmental protection, as it helps prevent contamination of soil and groundwater, safeguarding ecosystems and human health. Results can support regulatory compliance, site remediation, or long-term monitoring. Additionally, explosives analysis is important for forensic investigations, assessing agricultural impacts, and determining liability and risks in property transactions or redevelopment projects involving potentially contaminated land.



ALS method meets the requirements of the U.S. EPA. 2006. „Method 8330B (SW-846): Nitroaromatics, Nitramines, and Nitrate Esters by High Performance Liquid Chromatography (HPLC),” Revision 2. Washington, DC.

- Container type: a dark or opaque (non-transparent) plastic sample container or plastic bag (to avoid decomposition light-sensitive target compounds)
- Requested amount of sample: 200g
- Standard TAT\*: 10 – 14 days
- Express analysis\*: Not available

*\*Longer TAT and the unavailability of express analyses are caused by drying the sample at laboratory temperature, which is necessary for proper sample preparation and cannot be shortened.*

Analyte	Abbreviation	Limit of Reporting (LOR; mg/kg)
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	HMX	0.2
Hexahydro-1,3,5-trinitro-1,3,5-triazine	RDX	0.2
1,3,5-Trinitrobenzene	1,3,5-TNB	0.2
1,3-Dinitrobenzene	1,3-DNB	0.2
Methyl-2,4,6-trinitrophenylnitramine	Tetryl	0.2
Nitrobenzene	NB	0.2
2,4,6-Trinitrotoluene	2,4,6-TNT	0.2
4-Amino-2,6-dinitrotoluene	4-Am-DNT	0.2
2-Amino-4,6-dinitrotoluene	2-Am-DNT	0.2
2,4-Dinitrotoluene	2,4-DNT	0.2
2,6-Dinitrotoluene	2,6-DNT	0.2
2-Nitrotoluene	2-NT	0.2
3-Nitrotoluene	3-NT	0.2
4-Nitrotoluene	4-NT	0.2
Nitroglycerin	NG	1
Pentaerythritol tetranitrate	PETN	1
3,5-Dinitroaniline	3,5-DNA	0.2
N-Nitrosodiphenylamine	N-DPA	0.2
Diphenylamine	DPA	0.2

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