



UNIUNEA EUROPEANĂ



PROGRAMUL OPERAȚIONAL COMPETITIVITATE 2014 – 2020

Clean technologies combining phytoremediation with biofuel production

– Part 1 –

Project CleanTech, POC/P_40_308, SMIS:105958

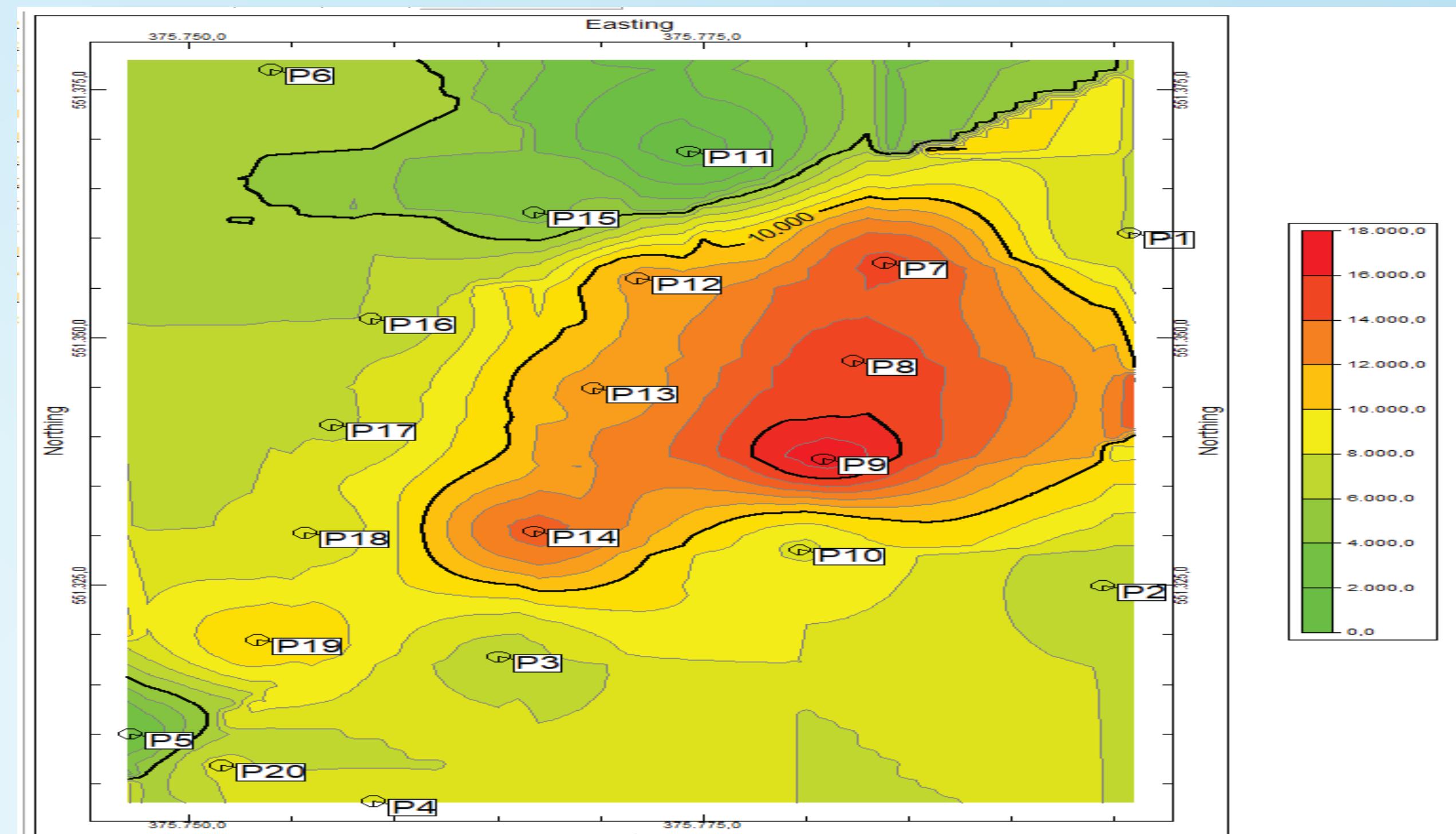
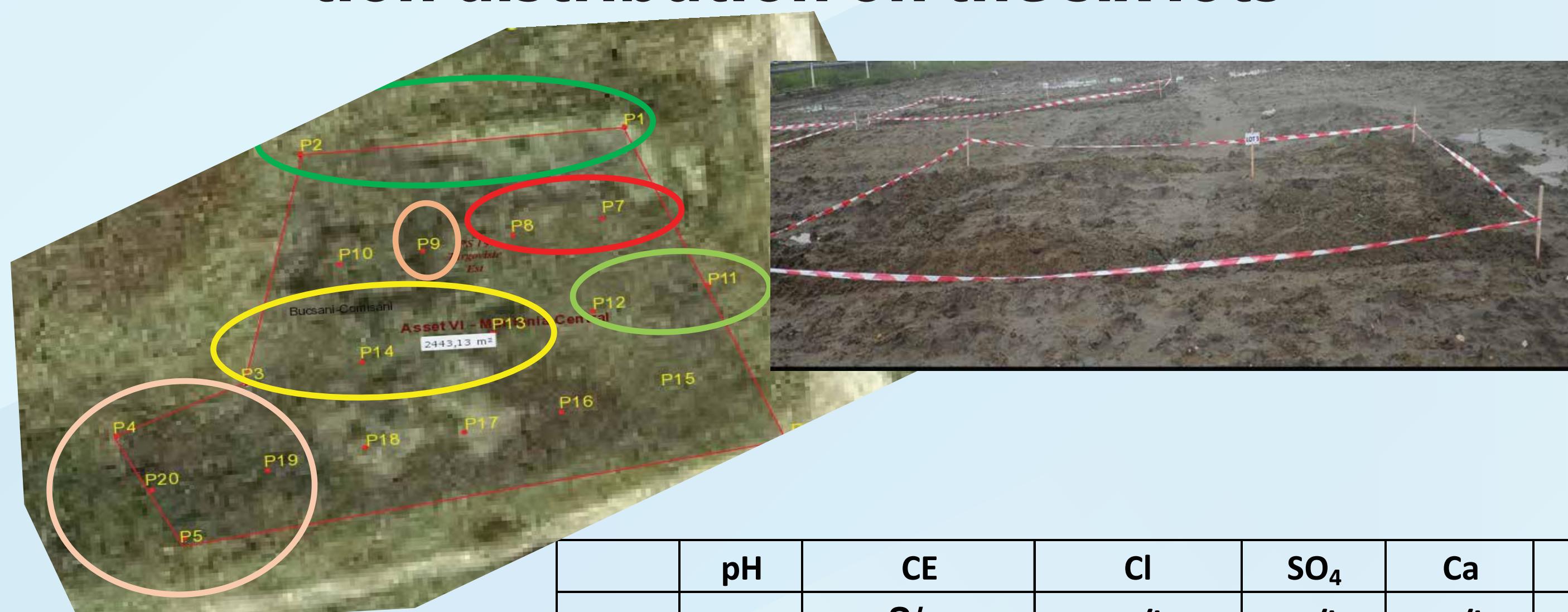
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Topic: Establishment, maintenance and efficiency of the experimental lot.
Monitoring the level of salinity in soil, on three depths, during the three life cycles of biomass.

**Keywords:**

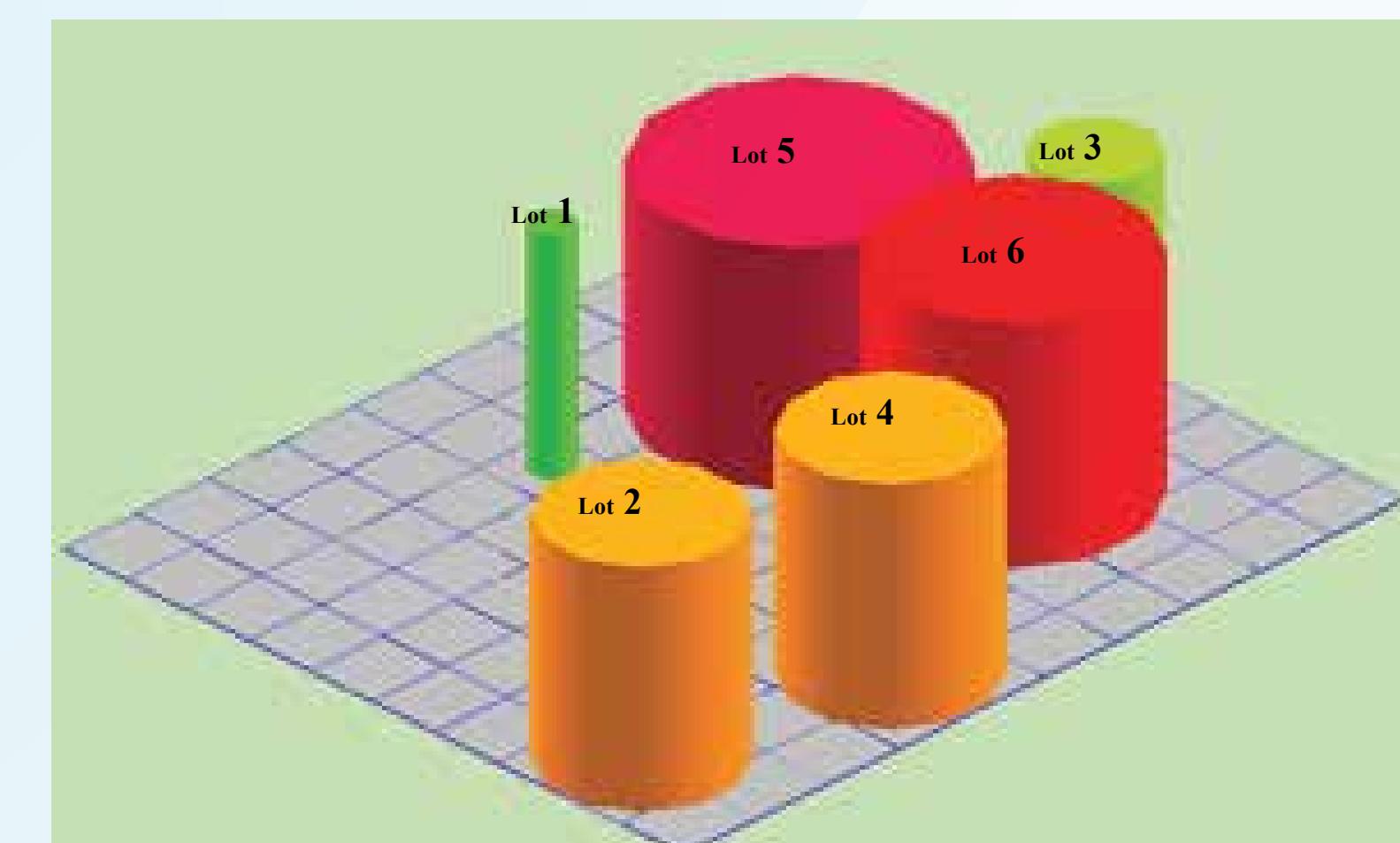
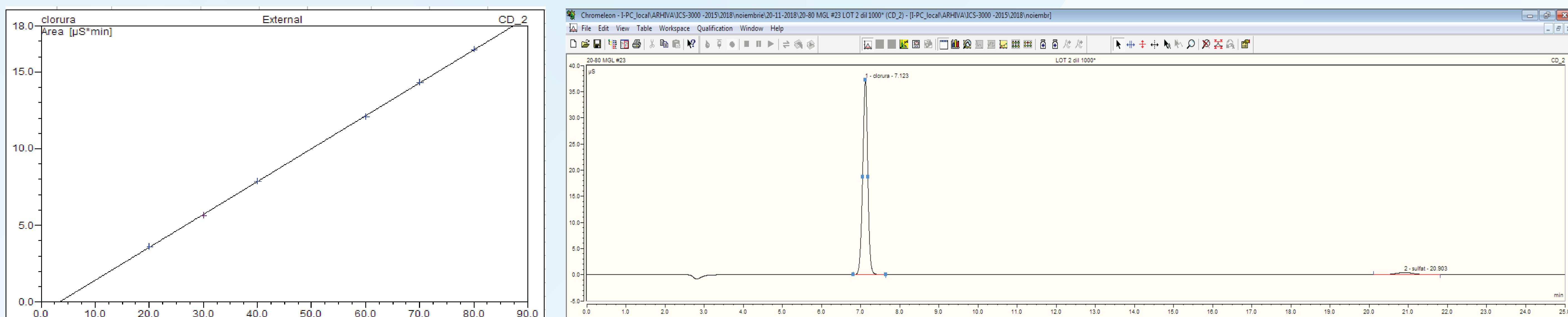
soil salinity
 soil sampling
 chloride
 phytoremediation

Objective: Sampling contaminated soil from the selected site
 Samples characterization (salts quantitative / qualitative analyses)
 Contaminated soil treatment solutions

Soils salinity - Modeling of chloride concentration distribution on the soil surface**Soil sampling****Soils salinity - Modeling of chloride concentration distribution on the six lots**

	pH	CE	Cl	SO ₄	Ca	Mg	Na	SAR	TPH
	-	µS/cm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(me/l) ^{1/2}	mg/kg
LOT 1	7,12	21570	2974	86	190	34	1833	50	250
LOT 2	6,97	73800	12012	731	1437	236	6999	67	280
LOT 3	7,25	52000	7411	239	664	104	4432	66	110
LOT 4	7,2	70600	12466	268	1066	178	7561	82	<85
LOT 5	6,79	96000	18777	498	1745	374	10515	85	90
LOT 6	7,08	97300	16212	352	1449	244	16212	94	<85

Salinity grade*	Cloride (Cl ⁻) mg/kg
Normal soil	<180
Low saline soil	190-600
Medium saline soil	610-1750
High saline soil	1750-3500

**Chloride analyses using ion chromatography**

Partners:



OMV Petrom
Energia pentru o viață mai bună.

OMV PETROM S.A.
ICPT Campina, Romania

Project period:
09/2016 - 09/2021

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