

Environmental Forensics Section

SUBMISSION: C213338

FIELD NO. 494

LAB.NO.SAMPLE: C213338-0001

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One particulate material sample was received from Hamilton. The sample was taken from the licence plate of complainant's vehicle. Industrial pollution was suspected. The material was examined by means of stereoscopic and polarized microscopes. Microscopical analyses indicated the presence of the following material:

SAMPLE NO. C213338-0001 (494)

QUALITATIVE ANALYSIS

SEMI-QUANTITATIVE ANALYSIS (error 5%)

1. Salt crystals (NaCl)	45%
2. Biological material (insect parts)	20%
3. Vegetation chips	20%
4. Coke	5%
5. Coal	5%
6. Coal soot	5%

CONCLUSIONS:

The complainant's sample contained particulate material which may have originated from the following sources:

Road salt: salt crystals

Foundry emissions: coke, coal soot

Coal piles: coal

Combustion products from a low efficiency furnace: coal soot

Environment: vegetation chips, insect parts