

Supplementary Material
**Microbial Pb(II)-bioprecipitation: Characterising Responsible
 Biotransformation Mechanisms**

Carla Cilliers¹, Olga Neveling¹, Shepherd M. Tichapondwa¹, Evans M. N. Chirwa¹ and Hendrik G. Brink*¹

¹ Department of Chemical Engineering, Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, Pretoria 0002, South Africa; u14053901@tuks.co.za (C.C.); u15037780@tuks.co.za (O.N.), shepherd.tichapondwa@up.ac.za (S.M.T), evans.chirwa@up.ac.za (E.M.N.C)

*Correspondence: deon.brink@up.ac.za

Section 4.2.9

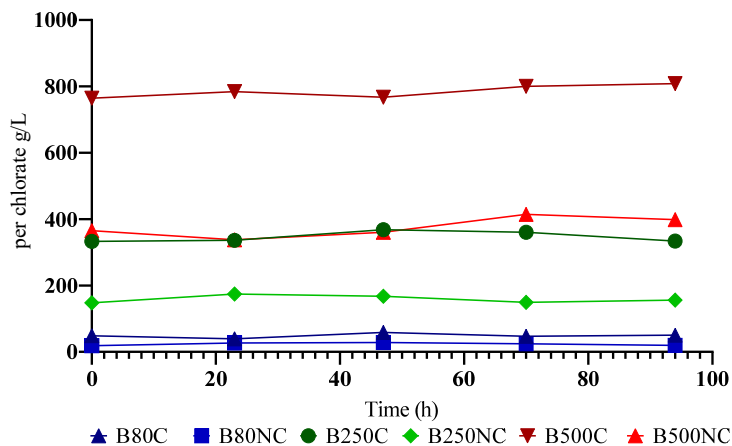


Fig. A1 Per Chlorate measurements at different concentrations of Pb(II) for study B.

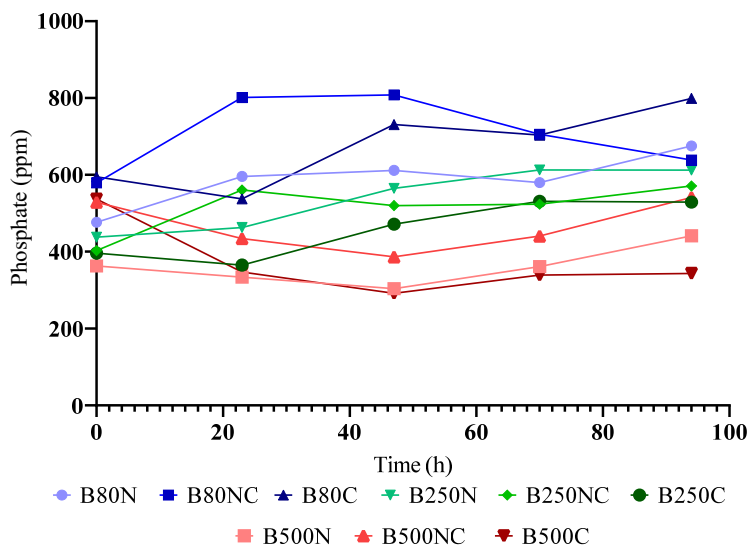


Fig. A2 Phosphate measurements at different concentrations of Pb(II) for study B.

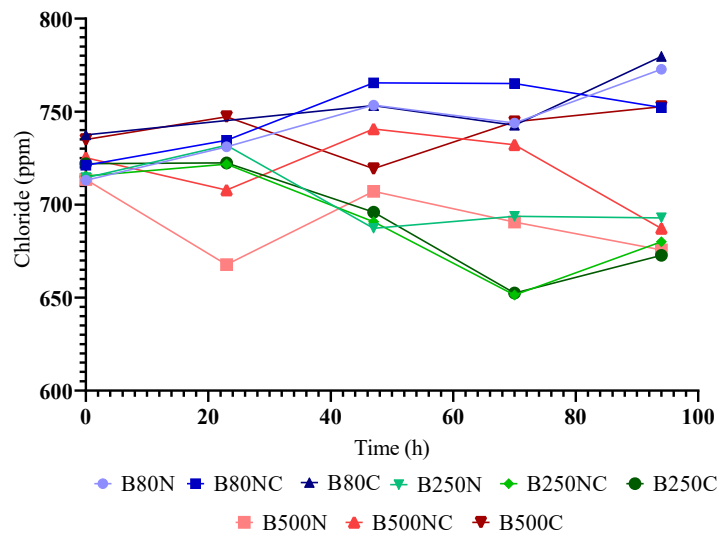


Fig. A3 Chloride measurements at different concentrations of Pb(II) for study B.

Section 3.2.8:

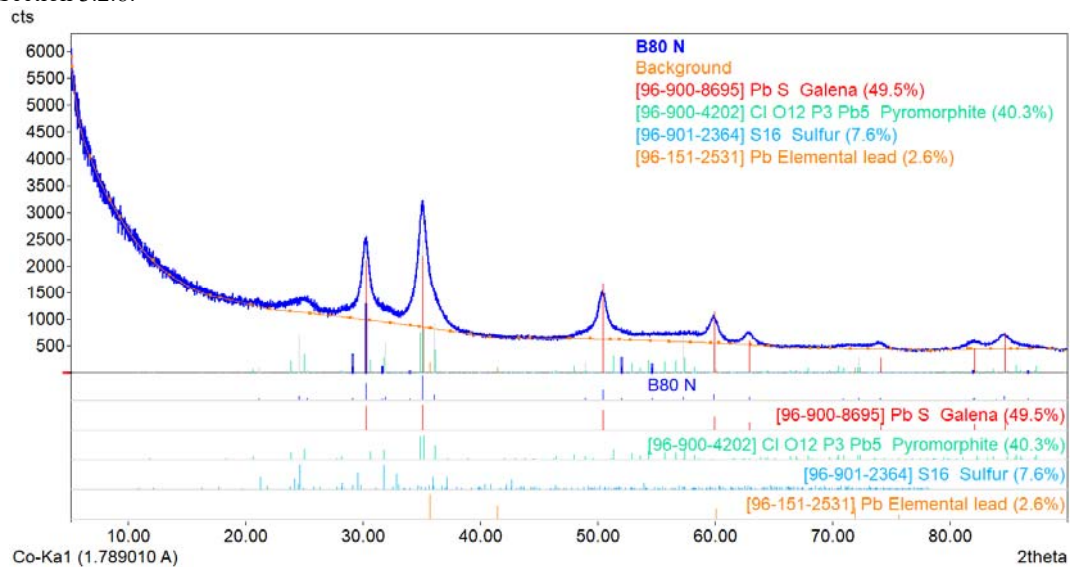


Fig. A4 XRD results for B80N samples for study B.

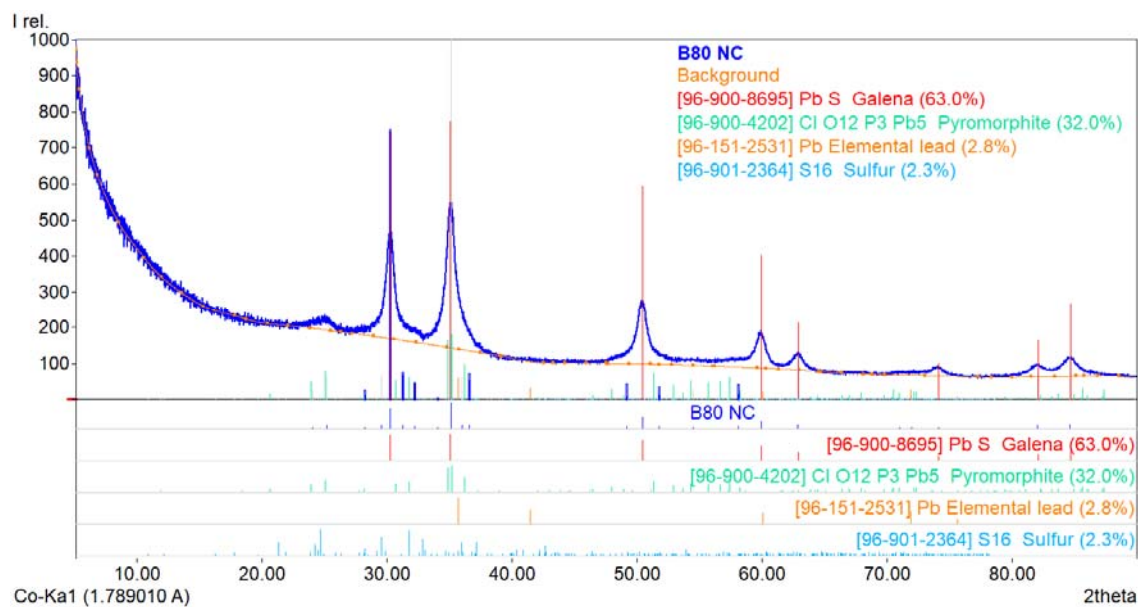


Fig. A5 XRD results for B80NC samples for study B.

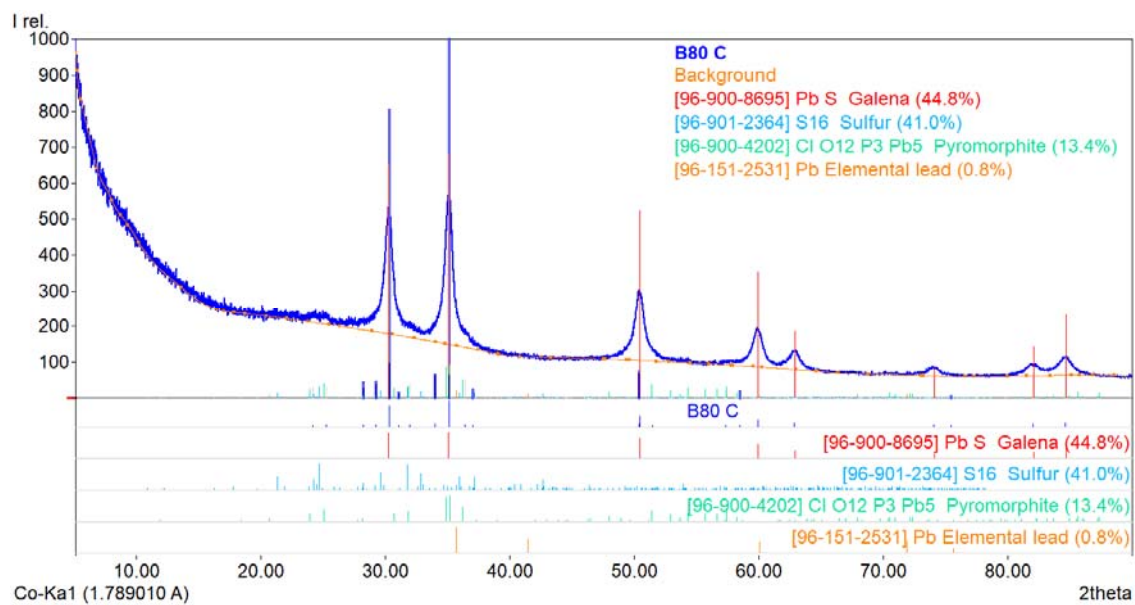


Fig. A5 XRD results for B80C samples for study B.

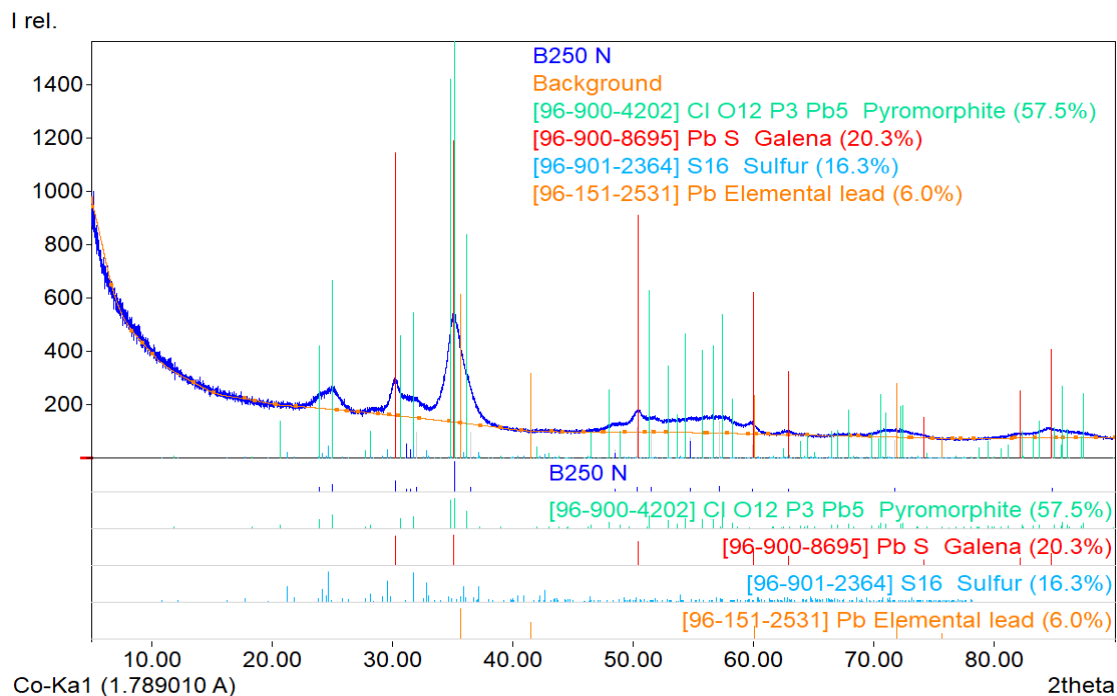


Fig. A6 XRD results for B250N samples for study B.

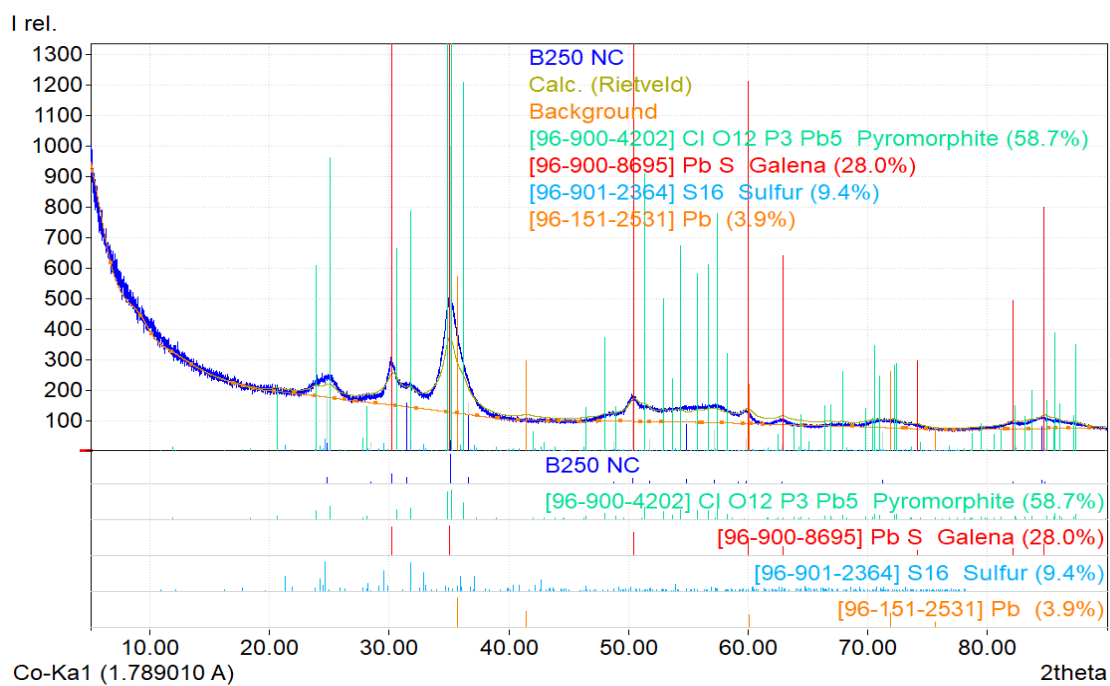


Fig. A7 XRD results for B250NC samples for study B.

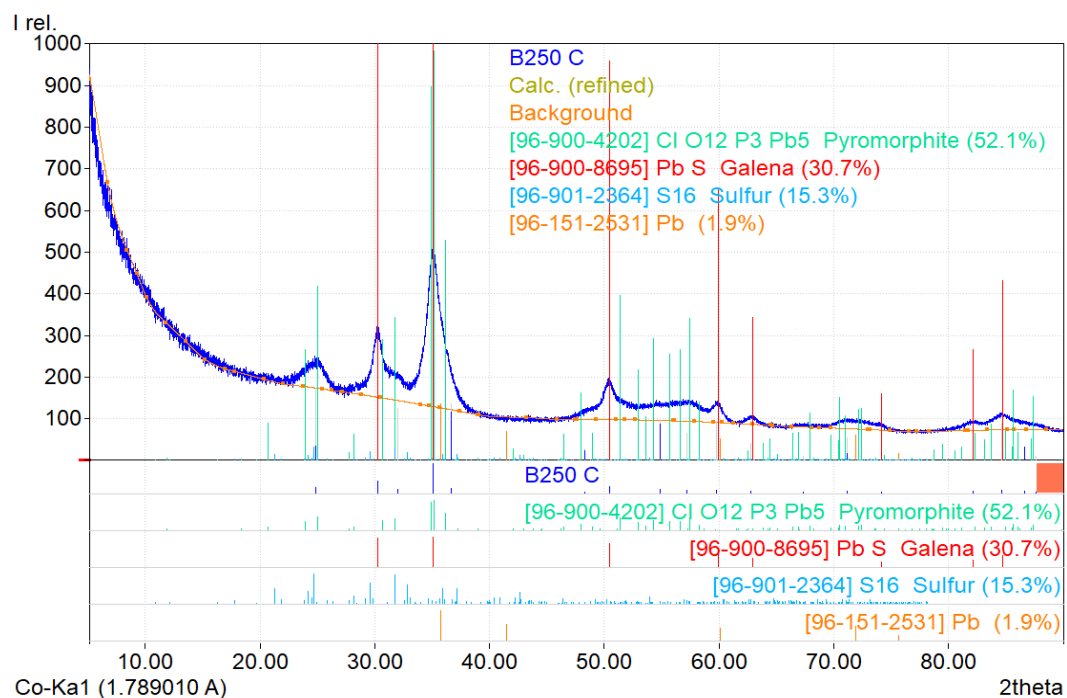


Fig. A8 XRD results for B250C samples for study B.

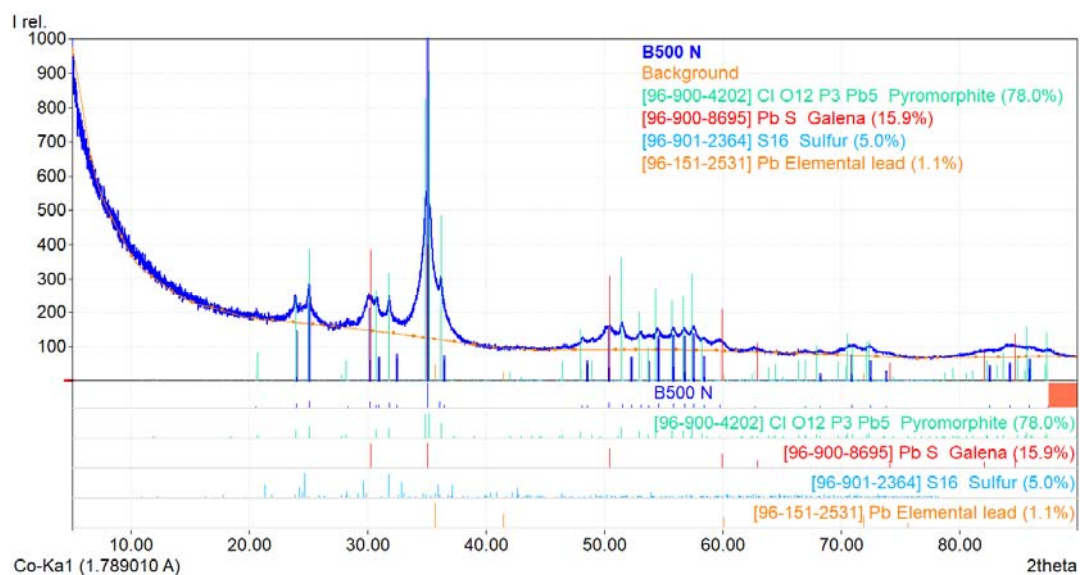


Fig. A9 XRD results for B500N samples for study B.

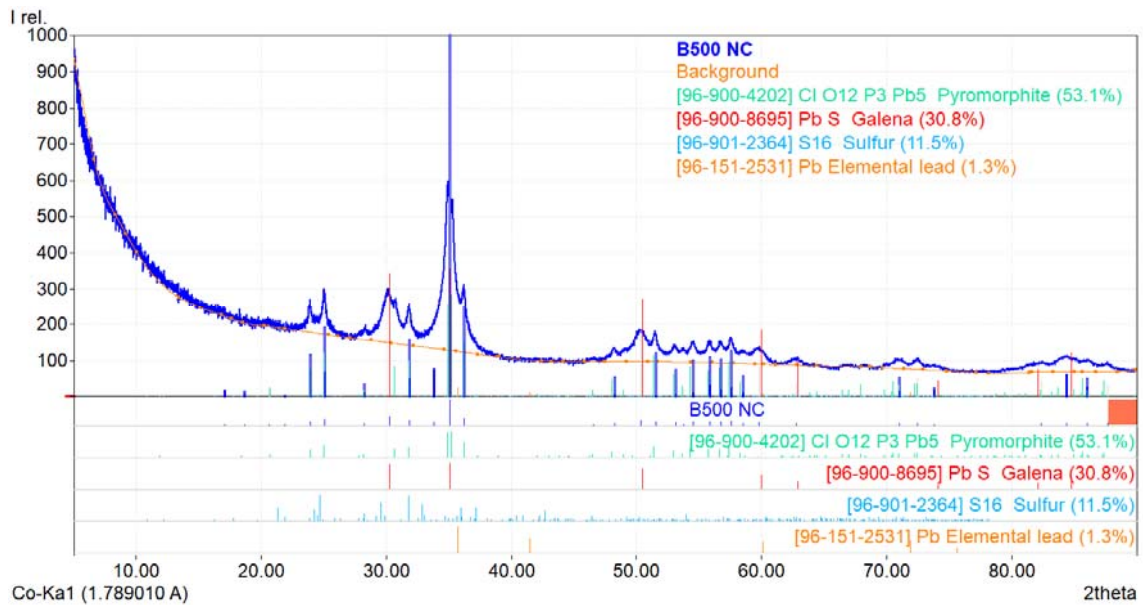


Fig. A10 XRD results for B500NC samples for study B.

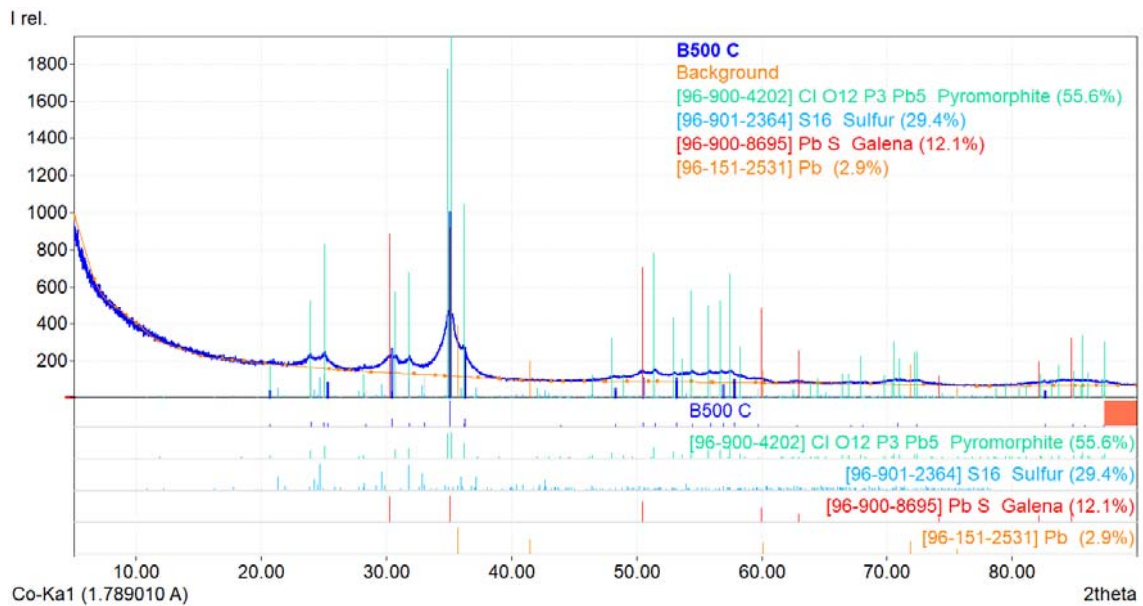


Fig. A11 XRD results for B500C samples for study B.

Table A1: XRD results based on a molecular basis:

Sample	P	S	Cl	Pb
B80N	0.01256	0.148599	0.2375	-0.0889
B80NC	0.013527	0.117994	0.071875	0.046119
B80C	0.008213	0.08149	0.434375	-0.35289
B250N	0.028986	0.212021	0.509375	-0.29735
B250NC	0.018841	0.216445	0.29375	-0.0773
B250C	0.009179	0.192109	0.478125	-0.28602
B500N	0.005314	0.287611	0.15625	0.131361
B500NC	0.00628	0.195796	0.359375	-0.16358
B500C	0.01401	0.205015	0.91875	-0.71374