

SERVICE REPORT

Job Number:	SE0746		
Customer:	University of York		
Contact:	Maria Fontanals-Coll		
Instrument:	PyroEarth and HS 20-22 (20402/4-2022/1284)		
Date of Visit:	08 Apr 26	Days: 1	
Engineer:	Henry Connell Cooke		
Reason for Visit:			
Extra day added since autosampler stopped turning the week after the service			
Service Contract?	Yes		
Warranty?	No	Expires:	N/A
Details of Visit:			
Day 1 - Arrived to autosampler in its box. Combustion furnace 100°, reduction 600°, open to atmosphere - Autosampler stripped and PTFE central block swapped for new - New tubes/water trap made by customer since system had been open to atmosphere all weekend - Autosampler put back on the system, top screws tightened until no leaks are detected, but sampler still turning well, even with all three carousels on top - Furnaces heated up, full flow returns, with end flow meter reading ~73 mL/min - Regular spikes seen in both CO₂ and N₂ in ref gas stability. Similar spikes are not observed in a trapped sample, suggesting there is a problem with ref gas crimp - Blanks ~3E-10, N and C combustion Precision ran. CO₂ = 0.09 ‰, N₂ = 0.11 ‰ but only n=4 for N₂ since some samples were inconsistent - Pressure test passed, rising from 28 to 31 PSI and dropping to 30 over 7 minutes - System turned to standby and the 1/8 thou pipe between the ref isolation valve and the Valco tee was replaced. New pipe was crimped to 4.4E-7 and ref gas stability no longer included spikes			

Follow Up:		
Please email me henry.cooke@sercongroup.com or support@sercongroup.com if you have any questions in the future		
Parts Used:	Quantity:	Charge:
		N/A
Total:		N/A

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Engineer:	Henry Connell Cooke	Date:	03 Aug 2026
Signed:	<i>Henry Connell Cooke</i>		
Customer:	<i>[Signature]</i>	Date:	04/08/2026
Signed:	<i>MONIA FENTANALIS</i>		