
From: Aisha Knaffel (Magnox) <aisha.knaffel@magnoxsites.com>
Sent: 24 March 2016 10:43
To: Greenwood, Bill
Cc: Littlewood, Karl; Pynn, Andrew
Subject: EA52576 - Data Request from EA
Attachments: NNL 13743 Issue 1 - Method Development and Validation of main metals method by Inductively Coupled Plasma Mass Spectrometry.pdf; Control Charts Summary Bradwell NNL comparison.pdf

Bill

Following your request for information and our recent telephone conversation, please find the following information:

- Method development and validation of main metals method by ICP-MS- report by National Nuclear Labs (NNL).

The initial method was developed at Bradwell with guidance from Prof. Kym Jarvis on our ICP-MS instruments within our laboratory facility. NNL have done some further method development which resulted in some changes. This modified method was then validated by NNL. As part of the validation, a sample that had previously been analysed by Bradwell and a blind sample manufactured by a third party was provided in order to establish trueness. Bradwell are in the process of analysing the trueness sample by using both our initial method and the new validated method by all our analysts to give further assurance.

The Limit of detection is referred to on p19 paragraph 3: "The LOD has been calculated by multiplying the variation of the blanks (standard deviation of the ten blanks) by three.
LOD data for each element can be found on tables 3,6, 9, 12, 15, 18, 21, 24 and 27.

- The summary Shewart charts are provided for Bradwell data from Nov 2016 and these are compared with NNL data from the validation.

This does not entirely fulfil your information request requirements as we are awaiting the validation report for the second analytical method (Hg) that we expect to be ready to send by the end of next week. As agreed we are providing the information as it becomes available to enable you to proceed with your determination in the interim.

Best Regards,

Patrick Haley
Head of Environment
Tel: 01621 873520

From: Greenwood, Bill [<mailto:bill.greenwood@environment-agency.gov.uk>]
Sent: 07 March 2016 11:28
To: Patrick J Haley (Magnox)
Cc: Wilkinson, Dan; Dundas, Harry
Subject: Data Request

CAUTION: External email

Hi Patrick

Following your conversation with my colleagues on Friday could you please send us the following data as soon as possible ;

- Validation data for both ICPMS methods and a brief explanation of where and how it's being done. This data should also include a Limit of Detection and calculation info,
- The last 3 months QC data (shewhart charts) for all the tests so that we can see how the tests are operating and compare with their validation data.

Bill

Bill Greenwood

Water Quality Permitting Officer

Internal: 53188 External: 020302 53188

Email: bill.greenwood@environment-agency.gov.uk

Environment Agency, Trentside Office, Scarrington Road, West Bridgford, Nottingham, NG2 5BR

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