

From: [Cherry, Robert N CIV USARMY IMCOM HQ \(USA\)](#)
To: [Evens, Andrew B CIV USARMY CELRL \(USA\)](#)
Cc: [Heather McPherson](#); [Johnson, Jamie R. \[US-US\]](#); [Yadav, Priya](#); [Valadez, Ernesto Jr CIV USARMY IMCOM HQ \(USA\)](#)
Subject: [External_Sender] RE: PLEASE REVIEW_JPG Spring 2021 sample_ MW-DU-006 (UNCLASSIFIED)
Date: Wednesday, May 4, 2022 9:06:33 PM

CLASSIFICATION: UNCLASSIFIED

Brooks,

This is definitely a strange result for Jefferson Proving Ground or for any Army site. I am surprised re-analysis confirmed the first result. I am relieved that the October sampling result is back to normal.

The anomalous result, if real, indicates highly enriched (weapons grade) uranium, which should not be at JPG or anywhere near JPG. (It is not DU. Whew!) I can offer no explanation for it. I can make some wild guesses but can't prove any of them. My most plausible guesses for now are that the laboratory may have accidentally contaminated the sample with a calibration sample or another alpha emitter with similar alpha energies similar to U-234 and U-235 (thorium-232?) popped up for this one time. I suppose we could ask them to review their procedures, but that is up to you. I am content to take no action at this time unless it happens again.

I am notifying our NRC PM (as required) on this for her take and, if any, her input. I can think of no further action except to remember this in case it happens again. For that reason at the minimum, please include this in the annual report.

Bob

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From: Evens, Andrew B CIV USARMY CELRL (USA) <Andrew.B.Evens@usace.army.mil>
Sent: Wednesday, May 4, 2022 11:21 AM
To: Cherry, Robert N CIV USARMY IMCOM HQ (USA) <robert.n.cherry.civ@army.mil>
Cc: Heather McPherson <heather.mcpherson@northwindgrp.com>; Johnson, Jamie R. [US-US] <JAMIE.R.JOHNSON@leidos.com>
Subject: FW: PLEASE REVIEW_JPG Spring 2021 sample_ MW-DU-006

Bob here is the reanalyzes of the MW-06 spring 2021 result.

I agree with it being an outlier

From: Kimberley Kearney, PMP <kkearney@northwindgrp.com>
Sent: Wednesday, May 4, 2022 12:11 PM
To: Evens, Andrew B CIV USARMY CELRL (USA) <Andrew.B.Evens@usace.army.mil>
Cc: Kimberley Kearney, PMP <kkearney@northwindgrp.com>; Jill Jones <jill.jones@northwindgrp.com>; Heather McPherson <heather.mcpherson@northwindgrp.com>; Johnson, Jamie R. [US-US] <JAMIE.R.JOHNSON@leidos.com>
Subject: [Non-DoD Source] PLEASE REVIEW_JPG Spring 2021 sample_ MW-DU-006

Brooks,

Good morning.

The MW-DU-006 groundwater sample collected June 9th, 2021 was reanalyzed in April 2022 to confirm results that were obtained during the initial analysis in 2021.

The alpha spectroscopy and ICP/MS re-analysis performed in April 2022 had the following results:

	Activity Concentration (pCi/L)				Ratio U-238/U-234
	U-234	U-235	U-238	Total Uranium	
MW-DU-006 – Initial AlphaSpec Analysis	138 ± 12	5.5 ± 0.6	3.7 ± 0.4	147 ± 12	0.03 ± 0.003
MW-DU-006 – April 2022 AlphaSpec Re-analysis	145 ± 13	5.5 ± 0.7	4.4 ± 0.6	155 ± 13	0.03 ± 0.005

ICP/MS – April 2022 Re-analysis

U-235 - 2.3 ug/L

- U-238 - 10 ug/L
- Other Uranium isotopes < DL (DL- 0.03 ug/L)
- Total Uranium of 12 ug/L

These alpha spectroscopy re-analysis results were similar to initial results in 2021; however, the total uranium re-analysis is just above the action level of 150 pCi/L. When above an action level, re-sampling is required and the well was resampled in October with normal results and the well was sampled again this spring and results are pending. Presently, the result for MW-DU-006 from the spring 2021 result has been excluded from the trending in the 2021 Annual ERM Report as an outlier.

Would the Army like to revise the draft 2021 Annual ERM Report to include the re-analysis? Does the Army agree with proceeding assuming these results are outliers?

Thank you for your assistance with these questions.

Warm Regards,

Kim

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