



St. Johns River

Water Management District

Ann B. Shortelle, Ph.D., Executive Director

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On the internet at www.sjrwmd.com.

DATE: April 24, 2020
TO: Prospective Respondents
FROM: Carol Taylor Miller, Senior Procurement Specialist
SUBJECT: Addendum #1 to Quote Request #35597 for Ammonia Gas Diffusion Autoanalyzer

As a result of a question asked by a vendor, we are providing the information below.

QUESTION:

1. Section III, Part C (3) states “Detection Limit must be 5 ppb or better. A measurement range of 5 ppb to 400 ppb N must be attainable”
 - How is the detection limit of 5 ppb calculated?
 - Is 5 ppb the lowest calibration point used when calibrating up to 400 ppb?

ANSWER:

To answer the first question this is taken from our SOP for MDL Determination:

Method Detection Limit (MDL) Determination The MDL Determination is performed for each analyte/instrument whenever there is a change in the test method that affects the sensitivity or when there is a change in the instrumentation.

SJRWMD utilizes the EPA’s Method and Procedure for the Determination of the Method Detection Limit, revision 2 (CFR 40, part 136, appendix B) as a guide to MDL Determination.

1. An initial MDL is performed when new instrumentation is implemented or a significant change in the test method has occurred. Form QID 3792 is used for new instrument implementation and changes that may affect sensitivity. This form includes a calculated MDL value based on the SD and results of a verification analysis with an expected recovery of 70%-130%. This form is also referenced in QID 2065, Implementing Laboratory Methods and Analysis.

Document Name: SOP Demonstration of Capability and MDL Determination QID 797

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2. The MDL procedure is not applicable to certain analytes at the SJRWMD Laboratory including: BOD, Color, Chlorophyll, pH, Specific Conductance, Turbidity, TSS, VSS, TDS [see section 4 in Method Detection Limit (MDL) Determination for SJRWMD protocol for these analytes].
3. The MDL is determined using the following protocol:
 - 3.1. Spiking level typically 2-10 times the MDL (once spiking level is determined, this value is used unless a change is approved by QAO)
 - 3.1.1. If changed an initial MDL must be repeated at this level
 - 3.2. For each analyte perform seven analyses of spiked sample
 - 3.2.1. Spiked samples used must be prepared in at least 3 batches on 3 separate calendar days
 - 3.2.2. At least two spiked samples in each batch
 - 3.2.3. If more than one instrument for an analyte, process seven samples for each instrument

As to the **second question**, we are currently using 5 ppb as the lowest calibration point when calibrating to 400 ppb.

NOTE: The Quote submittal date remains **April 29, 2020, 2:00 p.m.** Quote must be emailed to cmiller@sjrwmd.com as an attachment in PDF format.

If you have any questions, please call me at (386) 329-4170 or e-mail cmiller@sjrwmd.com.