

## Data Validation Report

**Project/Site Name:** San Gabriel Valley  
**Sample Delivery Group (SDG):** A343719  
**Parameters:** N-Nitrosodimethylamine (NDMA)  
**Method:** EPA 607/1625 mod  
**Laboratory:** MAXXAM Analytics Inc.

**Samples:**

<b>Sample ID</b>	<b>Sample Description</b>	<b>Sampling Date</b>	<b>Matrix</b>
AH03201	Field Sample	11/04/2003	Water
AH03203	Field Sample	11/04/2003	Water
AH03204	Field Sample	11/05/2003	Water
AH03205	Field Sample	11/05/2003	Water
AH03206	Field Sample	11/05/2003	Water

## **Introduction/Summary**

This data review report covers the sample delivery group and associated samples listed on the cover sheet. The analyses were per USEPA Method 607/1625 modified for N-Nitrosodimethylamine (NDMA) to attain low detection levels. The quality assurance and quality control procedures (QA/QC) were per project quality assurance plan and laboratory standard operating procedures (SOP).

This review is based on EPA Validation Functional Guidelines (1994 and later revisions) the following subsections correlate to these guidelines. The specific criteria is per method 1625, QAPP and laboratory SOP as described below. The sections below detail noted deviations from these criteria if any. Tables summarizing all data qualification flags are provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified criteria/protocols (P) or is of a technical advisory nature due to sample matrix (A).

Data qualifiers, if any, are summarized at the end of this report.

### **I. Holding Times**

Holding time criteria for extraction and analysis were met.

### **II. GC/MS Instrument Performance Check**

Instrument performance was checked prior to initial calibration, daily and with calibration verification. The criteria for PFK were met: 7500 or higher resolution on ion 68.9952 in group one, also less than 5ppm peak width on the same ion.

### **III. Initial Calibration**

An initial calibration with a minimum of five calibration (six) standards was run. The relative standard deviation (RSD) for each analyte was less than 25%.

Second source calibration check was run; percent difference was less than 25% limit.

### **IV. Continuing Calibration**

Continuing calibration was analyzed daily before sample analysis and every 12 hours of analysis time.

All calibration analytes had a relative percent difference of less than 25%.

### **V. Blanks**

Method blank analysis was performed at the frequency of once for every analytical batch.

The concentrations of analytes in the method blanks were less than the reporting limits and no detects were reported except for the following:

<b>Method Blank ID</b>	<b>Analyte</b>	<b>Concentration (ug/L)</b>	<b>Affected Samples</b>	<b>Concentration (ug/L) RL (0.00200)</b>	<b>Modified concentration (ug/L)</b>
A343719-536894B	NDMA	0.000496	AH03201	0.000595	0.00200 U
			AH03203	0.000557	0.00200 U
			AH03204	0.000467	0.00200 U
			AH03205	0.000563	0.00200 U
			AH03206	0.00245	0.00245

### **VI. System Monitoring Compounds/Internal standards**

Internal standard compound d-8 naphthalene (after extraction) and surrogate d6-NDMA (before extraction) were added to all laboratory blanks, LCS, MS/MSD and field samples. All recoveries for d6- NDMA were within laboratory limits (10-81%).

### **VII. Matrix Spike/Matrix Spike Duplicates**

An MS/MSD was analyzed with these samples. All percent recoveries and RPD were within laboratory limits as determined by the method.

### **VIII. Laboratory Control Sample (LCS)**

An LCS/LCSD was analyzed with these samples.

All percent recoveries and RPD were within laboratory limits as determined by the method.

**IX. Internal Standards**

Internal standards were analyzed and monitored per the following criteria during data acquisition for each sample: retention times within 15seconds relative to average of the initial calibration curve.

**X. Compound Quantitation and Reporting Limits**

The method d detection limits (MDLs) have been established by a MDL study by the laboratory and performed at least once every 12-month period.

Compound quantitation algorithms have been verified.

**XI. System Performance**

QC data at large indicate acceptable performance.

**XII. Overall Assessment of Data**

All data were found to be acceptable per specifications as noted above under introduction/summary with the exception of samples and analytes listed in the table at the end of this report if any.

**San Gabriel Valley NDMA Data Qualification Summary - SDG A343719**

No data for this SDG has been qualified.

**San Gabriel Valley NDMA Blanks Data Qualification Summary - SDG A343719**

<b>Method Blank ID</b>	<b>Analyte</b>	<b>Concentration (ug/L)</b>	<b>Affected Samples</b>	<b>Concentration (ug/L) RL (0.00200)</b>	<b>Modified concentration (ug/L)</b>
A343719- 536894B	NDMA	0.000496	AH03201 AH03203 AH03204 AH03205 AH03206	0.000595 0.000557 0.000467 0.000563 0.00245	0.00200 U 0.00200 U 0.00200 U 0.00200 U 0.00245