

# Data Validation Services

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Robert Gill  
Matrix Environmental Technologies, Inc.  
P O Box 427  
3730 California Rd  
Orchard Park, NY 14127

RE: **Data Usability Summary Report for the Former Sunoco Station at 905 Elmwood Avenue  
Accutest SDG Nos. MC36792 and MC37096**

Dear Mr. Gill:

Review has been completed for the data packages generated by Accutest that pertain to the analysis of samples collected 02/05/15 and 02/26/15 at the Former Sunoco Station at 905 Elmwood Avenue site. Six soil samples, a soil field duplicate, and two aqueous samples were analyzed for STARS volatile analytes by USEPA method 8260C. Field and trip blanks were also processed.

The data packages submitted contain full deliverables for validation, and this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOP HW-33, the USEPA National Functional Guidelines for Organic Data Review, the specific laboratory methodologies, and professional judgment, as affect the usability of the data. The following items were reviewed:

- \* Data Completeness
- \* Case Narrative
- \* Custody Documentation
- \* Holding Times
- \* Surrogate and Internal Standard Recoveries
- \* Matrix Spike/Duplicate Correlations
- \* Method/Field/Trip/Blanks
- \* Laboratory Control Samples (LCSs)
- \* Instrumental Tunes
- \* Instrument Performance
- \* Initial and Continuing Calibration Standards
- \* Method Compliance
- \* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

**In summary**, sample reported results are usable either as reported or with minor qualification. No data are rejected.

Copies of the sample identification summaries are attached to this narrative. Also included are client results tables with recommended qualifiers and edits applied in red.

**Sample Receipt**

The date and time were not included with the interim relinquish entry on the custody pertaining to the samples collected 02/05/14.

**Volatile Analyses by EPA8260C**

Due to poor mass spectral quality, the result for n-butylbenzene in SB108(5'-6') has been qualified as tentative in identification and estimated in value.

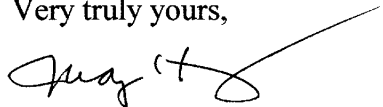
Matrix spikes were performed on SBXT. Recoveries and correlations are acceptable.

The field duplicate evaluation was performed on SB109(6.5'-8.5'), and correlations are acceptable.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Surrogate and internal standard recoveries are compliant with protocol and validation requirements. Blanks show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

  
Judy Harry

## VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs**



### Sample Summary

Sunoco

Job No: MC36792

MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY  
 Project No: 10-046

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC36792-1	02/05/15	09:40	CDZM	02/07/15	SO Soil	SB110(5'-6')
MC36792-2	02/05/15	09:55	CDZM	02/07/15	SO Soil	SB110(10'-11.5')
MC36792-3	02/05/15	10:20	CDZM	02/07/15	SO Soil	SB108(5'-6')
MC36792-4	02/05/15	10:45	CDZM	02/07/15	SO Soil	SB108(11'-11.5')
MC36792-5	02/05/15	10:55	CDZM	02/07/15	SO Soil	SB111(6.5'-8.5')
MC36792-6	02/05/15	11:30	CDZM	02/07/15	AQ Field Blank Soil	FIELD BLANK
MC36792-7	02/05/15	13:08	CDZM	02/07/15	SO Soil	SB109(6.5'-8.5')
MC36792-8	02/05/15	13:35	CDZM	02/07/15	SO Soil	SBXT
MC36792-9	02/05/15	00:00	CDZM	02/07/15	AQ Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



### Sample Summary

Sunoco

Job No: MC37096

MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY  
 Project No: 10-046 PO#27

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC37096-1	02/26/15	10:30 DK	02/28/15	AQ	Ground Water	MW-A
MC37096-2	02/26/15	11:50 DK	02/28/15	AQ	Ground Water	MW-B
MC37096-3	02/26/15	11:35 DK	02/28/15	AQ	Field Blank Water	FIELD BLANK
MC37096-4	02/26/15	00:00 DK	02/28/15	AQ	Trip Blank Water	TRIP BLANK