



We are in the process of ensuring this document is accessible to all audiences. If you need assistance accessing this document, or any material on the EPA East Palestine, Ohio emergency response web pages, please contact the Region 5 Public Information Officer on-call at: R5_EastPalestine@epa.gov

April 27, 2023

Mr. Josh Peters
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 5
Superfund and Emergency Management Division
2565 Plymouth Road
Ann Arbor, MI 48105

**Subject: Data Validation Report
E Palestine Site - ER
EPA Contract No.: 68HE0519D0005
Task Order/Task Order Line Item No.: 68HE0520F0032/0001EB201
Document Tracking No. 1701**

Dear Mr. Peters:

Tetra Tech, Inc. (Tetra Tech) is submitting this data validation report for sixteen sorbent tube air samples, including one field blank, collected at the E Palestine Site. The samples were collected on March 9, 2023, and were analyzed for acrylates by Eurofins Analytics of Ashland, Virginia. The final laboratory data package was received on April 15, 2023.

Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4* (August 2022), and the *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020).

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

If you have any questions regarding this data validation report, please feel free to contact me.

Sincerely,

Shanna M Vasser Digitally signed by
Shanna M Vasser
Date: 2023.04.27
10:06:21 -04'00'

Shanna Vasser, PE
Civil Engineer

Enclosure

cc: Karl Schultz, Tetra Tech Program Manager
Dustin Grams, Tetra Tech Project Manager
Mayra Arroyo Ortiz, Tetra Tech Project Document Control Coordinator
TO-TOLIN File

Tetra Tech, Inc.
1 South Wacker Dr. Suite 3700, Chicago, IL 60606
Tel 312.201.7479 | Fax 312.201.0031
www.tetrattech.com

ATTACHMENT

**DATA VALIDATION REPORT
EUROFINS ANALYTICS REPORT NO. B069151**

**DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 5 START CONTRACT**

Site Name	E Palestine Site - ER	TO/TOLIN No.	68HE0520F0032/0001EB201
Document Tracking No.	1701	Laboratory	Eurofins Analytics, LLC, Ashland VA
Laboratory Report No.	B069151	Analyses	
		2-Ethylhexyl acrylate and n-butyl acrylate by laboratory standard operating procedure (SOP) IHGC-P029	
Analyses	Sixteen sorbent tube air samples (including one field blank)		
Samples and Matrix	Collection Date(s)		
		03/09/2023	
Collection Date(s)	Field Duplicate Pairs		
		None	
Field Duplicate Pairs	Field QC Blanks		
		EPD-ST-FB-030923	

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4* (August 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort. .

Data completeness:

Within Criteria	Exceedance/Notes
Y	<p>Level II SDG did not have required QC forms thus a level IV package was reviewed.</p> <p>The results for the field blank and EPD-ST-24H-2-030923-2 were reported in units of micrograms (µg) while the other results were reported in units of µg, milligrams per cubic meter (mg/m³), and parts per million (ppm) (volume) in the laboratory report and ppm (volume) only in the electronic data deliverable (EDD).</p> <p>The laboratory report included the following note: “The method reference, Rohm & Haas IH9805 is referenced to the AIHA certification as IHGC-P029” and “Rohm & Haas IH9805” is listed on the EDD as the Method.</p>

**DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 5 START CONTRACT**

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	Chain of custody does not have sample end time or duration for EPD-ST-24H-2-030923-2 because the sample became dislodged from the pump during the sampling period. No qualifications were applied.

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

Within Criteria	Exceedance/Notes
Y	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
NA	

MS/MSDs:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

**DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 5 START CONTRACT**

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
NA	

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

MDLs/RLs:

Within Criteria	Exceedance/Notes
N	Method detection limits were not reported. Non-detect sample results are reported as less than the reporting limit in the laboratory report and as the reporting limit with a “U” qualifier in the EDD and attached qualified data table.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

**DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 5 START CONTRACT**

Other [specify]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.
NF	The tentatively identified compound was manually searched for but was not found in the sample.

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY
EUROFINS ANALYTICS REPORT NO. B069151

Sample_ID	Method	CAS#	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-ST-24H-1-030923-1	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.013	U			0.013 ppm	0.013	U
EPD-ST-24H-1-030923-1	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.009	U			0.009 ppm	0.009	U
EPD-ST-24H-1-030923-2	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.017	U			0.017 ppm	0.017	U
EPD-ST-24H-1-030923-2	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.011	U			0.011 ppm	0.011	U
EPD-ST-24H-1-030923-3	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.014	U			0.014 ppm	0.014	U
EPD-ST-24H-1-030923-3	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.009	U			0.009 ppm	0.009	U
EPD-ST-24H-2-030923-1	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.014	U			0.014 ppm	0.014	U
EPD-ST-24H-2-030923-1	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.009	U			0.009 ppm	0.009	U
EPD-ST-24H-2-030923-2	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	2.8	U			2.8 ug	2.8	U
EPD-ST-24H-2-030923-2	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	1.3	U			1.3 ug	1.3	U
EPD-ST-24H-2-030923-3	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.012	U			0.012 ppm	0.012	U
EPD-ST-24H-2-030923-3	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.008	U			0.008 ppm	0.008	U
EPD-ST-24H-3-030923-1	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.012	U			0.012 ppm	0.012	U
EPD-ST-24H-3-030923-1	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.008	U			0.008 ppm	0.008	U
EPD-ST-24H-3-030923-2	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.015	U			0.015 ppm	0.015	U
EPD-ST-24H-3-030923-2	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.01	U			0.01 ppm	0.01	U
EPD-ST-24H-3-030923-3	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.016	U			0.016 ppm	0.016	U
EPD-ST-24H-3-030923-3	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.01	U			0.01 ppm	0.01	U
EPD-ST-24H-4-030923-1	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.011	U			0.011 ppm	0.011	U
EPD-ST-24H-4-030923-1	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.007	U			0.007 ppm	0.007	U
EPD-ST-24H-4-030923-2	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.015	U			0.015 ppm	0.015	U
EPD-ST-24H-4-030923-2	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.01	U			0.01 ppm	0.01	U
EPD-ST-24H-4-030923-3	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.014	U			0.014 ppm	0.014	U
EPD-ST-24H-4-030923-3	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.009	U			0.009 ppm	0.009	U
EPD-ST-24H-5-030923-1	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.012	U			0.012 ppm	0.012	U
EPD-ST-24H-5-030923-1	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.008	U			0.008 ppm	0.008	U
EPD-ST-24H-5-030923-2	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.015	U			0.015 ppm	0.015	U
EPD-ST-24H-5-030923-2	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.01	U			0.01 ppm	0.01	U
EPD-ST-24H-5-030923-3	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	0.015	U			0.015 ppm	0.015	U
EPD-ST-24H-5-030923-3	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	0.01	U			0.01 ppm	0.01	U
EPD-ST-FB-030923	Rohm & Haas IH9805	103-11-7	2-Ethylhexyl acrylate	2.8	U			2.8 ug	2.8	U
EPD-ST-FB-030923	Rohm & Haas IH9805	141-32-2	n-Butyl acrylate	1.3	U			1.3 ug	1.3	U