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R5\_EastPalestine@epa.gov

April 3, 2023

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. 1731**

Dear Mr. Peters:

Tetra Tech, Inc. (Tetra Tech) is submitting this data validation report for nine air samples collected at the E Palestine Site. The samples were collected on March 21, 2023 and were analyzed for VOCs by Eurofins Air Toxics. The final laboratory data package was received on March 24, 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 (NFG) 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 call me at (770) 598-1808.

Sincerely,

A handwritten signature in black ink that reads 'Shanna Vasser'.

Shanna Vasser, PE  
Civil Engineer

Enclosure

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

**ATTACHMENT**

**DATA VALIDATION REPORTS  
EUROFINS AIR TOXICS REPORT NOS. 2303491A AND 2303491B**

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

<b>Site Name</b>	E Palestine Site - ER		<b>TO/TOLIN No.</b>	68HE0520F0032/0001EB201
<b>Document Tracking No.</b>	1731a		<b>Technical Reviewer (signature and date)</b>	<i>S. Ramam Vasser</i> 3/30/2023
<b>Data Reviewer (signature and date)</b>	<i>[Signature]</i> March 28, 2023	<i>[Signature]</i> 3/29/23	<b>Laboratory</b>	Eurofins Air Toxics, LLC, Folsom, CA
<b>Laboratory Report No.</b>	2303491A		<b>Analyses</b>	
<b>Analyses</b>	Volatile organic compounds (VOCs) by EPA Method TO-15 in scan and selected ion monitoring (SIM) modes			
<b>Samples and Matrix</b>	Eight air samples, including one field duplicate			
<b>Collection Date(s)</b>	03/21/2023			
<b>Field Duplicate Pairs</b>	EPD-WA-06-032123 & EPD-WA-66-0321233			
<b>Field QC Blanks</b>	NA			

**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
N	EPD-WA-04-032123, was originally listed on the chain of custody, but was removed from the data package and analyzed in SDG 2303491B.  No LCS RPDs were provided in the Level II laboratory report. The lab provided RPDs separately. No qualifications were applied.

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

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
Y	<p>Starting and ending canister vacuum/pressures on the chain-of-custody (COC) form are all recorded as positive values and should not be. The field team leader was contacted and confirmed that they are actually negative values and that the field team inadvertently omitted the negative signs. Additionally, the canister receipt vacuum/pressure values in the laboratory report are also positive and should not be. The laboratory was contacted and confirmed that the all values are negative, even though the minus signs are missing, and that the laboratory uses the following convention for recording Summa canister vacuums and pressures: vacuums are recorded as positive values using the unit of inches of mercury (”Hg), and positive pressures are recorded using the unit pounds per square inch (psi).</p> <p>The ending field-measured canister pressure listed on the COC form for EPD-WA-01-032123 was 0”Hg, while canister pressure measured by the laboratory upon receipt was -4.3”Hg (slight vacuum pressure). These pressure discrepancies suggest that one or both of the pressure gauges used were inaccurate. Typically, the field gauges tend to be less accurate than lab gauges. If it is assumed the field gauge was less accurate than the laboratory gauge, then it is possible the sample was representative of the matrix conditions over the entire sampling period. However, if it is assumed the laboratory gauge was less accurate than the zero pressure reading of the field gauge suggests that the canister may have filled more quickly than intended and may have filled up before the end of the intended sampling period. Because it cannot be known when during the sampling period the canisters filled completely, the samples may not be representative of the matrix conditions over the entire sampling period, and the analytical results for the samples should be used with caution.</p> <p>The ending field-measured canister pressure listed on the COC form for EPD-WA-02-032123 was -15”Hg, and canister pressure measured by the laboratory upon receipt was -15.3”Hg. This large vacuum pressure suggests that the canister filled more slowly than intended over the allotted time, therefore the sample volume is lower than planned. The lower volume may have affected analytical sensitivity (possibly leading to elevated method detection limit (MDL) and reporting limit (RL) values). Also, the sample may not be representative of the full collection period. These analytical results should be used with caution.</p>

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

**Method blanks:**

Within Criteria	Exceedance/Notes
N	<p>TO-15 scan (2303491A-10A and 2303491A-10C): Acetone, carbon disulfide, and methylene chloride were detected in the method blanks at levels between the MDL and RL. The following results were qualified as not detected (flagged U) at the RL:</p> <ul style="list-style-type: none"> <li>• Acetone results for all samples except EPD-WA-66-032123.</li> <li>• Carbon disulfide results for samples EPD-DW-01-032123, EPD-UW-01-032123, EPD-WA-03-032123, EPD-WA-05-032123, and EPD-WA-66-032123.</li> <li>• Methylene chloride results for samples EPD-UW-01-032123, EPD-WA-01-032123, EPD-WA-03-032123, EPD-WA-05-032123, EPD-WA-06-032123 and EPD-WA-66-032123.</li> </ul> <p>TO-15 SIM (2303491A-10B and 2303491A-10D): Trans-1,2-dichloroethene, tetrachloroethene, 1,2-dibromomethane, and m,p-xylene were detected in the method blank at levels between the MDL and RL.</p> <ul style="list-style-type: none"> <li>• The trans-1,2-dichloroethene result in EPD-DW-01-032123 was qualified as estimated with a high bias (flagged J+).</li> <li>• The tetrachloroethene result in samples EPD-DW-01-032123, EPD-UW-01-032123, EPD-WA-03-032123, and EPD-WA-05-032123 were qualified as not detected (flagged U) at the RL.</li> <li>• The m,p-xylene results were all &gt;10x the method blank concentration, so no qualifications were applied.</li> <li>• The 1,2-dibromomethane results were all nondetect, so no qualifications were applied.</li> </ul>

**Field blanks:**

Within Criteria	Exceedance/Notes
NA	

**Surrogates and labeled compounds:**

Within Criteria	Exceedance/Notes
Y	

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

**MS/MSDs:**

Within Criteria	Exceedance/Notes
NA	

**Laboratory duplicates:**

Within Criteria	Exceedance/Notes
NA	

**Field duplicates:**

Within Criteria	Exceedance/Notes
N	The difference between the hexane results in field duplicate pair EPD-WA-06-032123 and EPD-WA-66-0321233 exceeded acceptance criteria. The hexane sample results for EPD-WA-06-032123 and EPD-WA-66-0321233 were qualified as estimated (flagged J).

**LCSs/LCSDs:**

Within Criteria	Exceedance/Notes
N	<p>TO-15 scan (2303491A-12C): The LCS/LCSD recoveries were greater than QC limits for bromomethane and 2-propanol.</p> <ul style="list-style-type: none"> <li>• The 2-propanol result in EPD-WA-66-032123 was qualified as estimated (flagged J).</li> <li>• Bromomethane results were all nondetect, therefore no qualifications were applied.</li> </ul> <p>The TO-15 SIM (2303491A-12D): The LCS/LCSD recoveries were less than QC limits for carbon tetrachloride. The carbon tetrachloride results in all eight samples were qualified as estimated (flagged J).</p>

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

**Sample dilutions:**

<b>Within Criteria</b>	<b>Exceedance/Notes</b>
Y	Canister dilution factors were: <ul style="list-style-type: none"> <li>• EPD-DW-01-032123 was 1.23.</li> <li>• EPD-UW-01-032123 was 1.29.</li> <li>• EPD-WA-01-032123 was 1.32.</li> <li>• EPD-WA-02-032123 was 2.30.</li> <li>• EPD-WA-03-032123 was 1.25.</li> <li>• EPD-WA-05-032123 was 1.34.</li> <li>• EPD-WA-06-032123 was 1.29.</li> <li>• EPD-WA-66-032123 was 1.91.</li> </ul>

**Re-extraction and reanalysis:**

<b>Within Criteria</b>	<b>Exceedance/Notes</b>
NA	

**MDLs/RLs:**

<b>Within Criteria</b>	<b>Exceedance/Notes</b>
Y	Detections between the MDL and RL were reported and qualified as estimated (flagged J) by the laboratory.

**Tentatively identified compounds:**

<b>Within Criteria</b>	<b>Exceedance/Notes</b>
Y	Tentatively identified compounds (TICs) were detected in all samples. The known TICs were qualified as tentatively identified (flagged NJ). 2-ethyl-1hexanol in all eight samples and butyl acrylate in all samples except EPA-WA-03-032123 were reported as not detected and qualified as manually searched for, but not found in the sample (flagged U,NF).

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

**Other [Continuing Calibration]:**

Within Criteria	Exceedance/Notes
N	CCV (2303491A-11A) had high percent recovery of heptane. Heptane result in all samples were qualified as estimated (flagged J/UJ).

**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.
NF	The tentatively identified compound was manually searched for but was not found in the sample.
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.



E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-DW-01-032123	TO-15	1,2,4-TRICHLOROBENZENE	4.6	U	0.60	4.6	UG/M3	4.6	U
EPD-DW-01-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.60	U	0.14	0.60	UG/M3	0.60	U
EPD-DW-01-032123	TO-15	1,2-DICHLOROBENZENE	0.74	U	0.16	0.74	UG/M3	0.74	U
EPD-DW-01-032123	TO-15	1,2-DICHLOROPROPANE	0.57	U	0.20	0.57	UG/M3	0.57	U
EPD-DW-01-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.60	U	0.19	0.60	UG/M3	0.60	U
EPD-DW-01-032123	TO-15	1,3-BUTADIENE	0.27	U	0.11	0.27	UG/M3	0.27	U
EPD-DW-01-032123	TO-15	1,3-DICHLOROBENZENE	0.74	U	0.15	0.74	UG/M3	0.74	U
EPD-DW-01-032123	TO-15	1,4-DIOXANE	0.44	U	0.24	0.44	UG/M3	0.44	U
EPD-DW-01-032123	TO-15	2,2,4-TRIMETHYLPENTANE	2.9	U	0.41	2.9	UG/M3	2.9	U
EPD-DW-01-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	1.8	U	0.41	1.8	UG/M3	1.8	U
EPD-DW-01-032123	TO-15	2-HEXANONE	2.5	U	0.51	2.5	UG/M3	2.5	U
EPD-DW-01-032123	TO-15	2-PROPANOL	6.0	U	0.32	6.0	UG/M3	6.0	U
EPD-DW-01-032123	TO-15	3-CHLOROPROPENE	1.9	U	0.42	1.9	UG/M3	1.9	U
EPD-DW-01-032123	TO-15	4-ETHYLTOLUENE	0.60	U	0.14	0.60	UG/M3	0.60	U
EPD-DW-01-032123	TO-15	4-METHYL-2-PENTANONE	0.50	U	0.11	0.50	UG/M3	0.50	U
EPD-DW-01-032123	TO-15	ACETONE	3.8	J	0.83	5.8	UG/M3	5.8	U
EPD-DW-01-032123	TO-15	ALPHA-CHLOROTOLUENE	0.64	U	0.33	0.64	UG/M3	0.64	U
EPD-DW-01-032123	TO-15	BROMODICHLOROMETHANE	0.82	U	0.18	0.82	UG/M3	0.82	U
EPD-DW-01-032123	TO-15	BROMOFORM	1.3	U	0.29	1.3	UG/M3	1.3	U
EPD-DW-01-032123	TO-15	BROMOMETHANE	24	U	1.8	24	UG/M3	24	U
EPD-DW-01-032123	TO-15	CARBON DISULFIDE	0.42	J	0.25	1.9	UG/M3	1.9	U
EPD-DW-01-032123	TO-15	CHLOROBENZENE	0.57	U	0.16	0.57	UG/M3	0.57	U
EPD-DW-01-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.56	U	0.17	0.56	UG/M3	0.56	U
EPD-DW-01-032123	TO-15	CUMENE	0.60	U	0.091	0.60	UG/M3	0.60	U
EPD-DW-01-032123	TO-15	CYCLOHEXANE	2.1	U	0.22	2.1	UG/M3	2.1	U
EPD-DW-01-032123	TO-15	DIBROMOCHLOROMETHANE	1.0	U	0.21	1.0	UG/M3	1.0	U
EPD-DW-01-032123	TO-15	ETHANOL	4.6	U	1.2	4.6	UG/M3	4.6	U
EPD-DW-01-032123	TO-15	FREON 11	1.0		0.11	0.69	UG/M3	1.0	
EPD-DW-01-032123	TO-15	FREON 113	0.44	J	0.12	0.94	UG/M3	0.44	J
EPD-DW-01-032123	TO-15	HEPTANE	2.5	U	0.51	2.5	UG/M3	2.5	U
EPD-DW-01-032123	TO-15	HEXACHLOROBUTADIENE	6.6	U	0.55	6.6	UG/M3	6.6	U
EPD-DW-01-032123	TO-15	HEXANE	2.2	U	0.36	2.2	UG/M3	2.2	U
EPD-DW-01-032123	TO-15	METHYLENE CHLORIDE	0.85	U	0.32	0.85	UG/M3	0.85	U

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-DW-01-032123	TO-15	PROPYLBENZENE	0.60	U	0.22	0.60	UG/M3	0.60	U
EPD-DW-01-032123	TO-15	STYRENE	0.52	U	0.098	0.52	UG/M3	0.52	U
EPD-DW-01-032123	TO-15	TETRAHYDROFURAN	1.8	U	1.2	1.8	UG/M3	1.8	U
EPD-DW-01-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.56	U	0.15	0.56	UG/M3	0.56	U
EPD-DW-01-032123	TO-15	2-ETHYL-1-HEXANOL	0	U			PPBV	0	U,NF
EPD-DW-01-032123	TO-15	BUTANE	1.1	NJ			PPBV	1.1	NJ
EPD-DW-01-032123	TO-15	BUTANE, 2-METHYL-	0.73	NJ			PPBV	0.73	NJ
EPD-DW-01-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0	U			PPBV	0	U,NF
EPD-DW-01-032123	TO-15	ISOBUTANE	0.71	NJ			PPBV	0.71	NJ
EPD-DW-01-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.13	U	0.018	0.13	UG/M3	0.13	U
EPD-DW-01-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.17	U	0.028	0.17	UG/M3	0.17	U
EPD-DW-01-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.13	U	0.027	0.13	UG/M3	0.13	U
EPD-DW-01-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.10	U	0.012	0.10	UG/M3	0.10	U
EPD-DW-01-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.049	U	0.025	0.049	UG/M3	0.049	U
EPD-DW-01-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.19	U	0.042	0.19	UG/M3	0.19	U
EPD-DW-01-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.082	J	0.019	0.10	UG/M3	0.082	J
EPD-DW-01-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.15	U	0.081	0.15	UG/M3	0.15	U
EPD-DW-01-032123	TO-15 SIM	BENZENE	0.52		0.038	0.20	UG/M3	0.52	
EPD-DW-01-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.35		0.029	0.15	UG/M3	0.35	J
EPD-DW-01-032123	TO-15 SIM	CHLOROETHANE	0.16	U	0.099	0.16	UG/M3	0.16	U
EPD-DW-01-032123	TO-15 SIM	CHLOROFORM	0.056	J	0.019	0.12	UG/M3	0.056	J
EPD-DW-01-032123	TO-15 SIM	CHLOROMETHANE	0.93	J	0.12	1.3	UG/M3	0.93	J
EPD-DW-01-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.098	U	0.021	0.098	UG/M3	0.098	U
EPD-DW-01-032123	TO-15 SIM	ETHYL BENZENE	0.097	J	0.0076	0.11	UG/M3	0.097	J
EPD-DW-01-032123	TO-15 SIM	FREON 114	0.093	J	0.024	0.17	UG/M3	0.093	J
EPD-DW-01-032123	TO-15 SIM	FREON 12	1.8		0.017	0.30	UG/M3	1.8	
EPD-DW-01-032123	TO-15 SIM	M,P-XYLENE	0.27		0.015	0.21	UG/M3	0.27	
EPD-DW-01-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.44	U	0.016	0.44	UG/M3	0.44	U
EPD-DW-01-032123	TO-15 SIM	NAPHTHALENE	0.32	U	0.060	0.32	UG/M3	0.32	U
EPD-DW-01-032123	TO-15 SIM	O-XYLENE	0.10	J	0.013	0.11	UG/M3	0.10	J
EPD-DW-01-032123	TO-15 SIM	TETRACHLOROETHENE	0.060	J	0.0064	0.17	UG/M3	0.17	U
EPD-DW-01-032123	TO-15 SIM	TOLUENE	0.66		0.015	0.23	UG/M3	0.66	
EPD-DW-01-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.13	J	0.015	0.49	UG/M3	0.13	J+

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-DW-01-032123	TO-15 SIM	TRICHLOROETHENE	0.13	U	0.012	0.13	UG/M3	0.13	U
EPD-DW-01-032123	TO-15 SIM	VINYL CHLORIDE	0.53		0.023	0.031	UG/M3	0.53	
EPD-UW-01-032123	TO-15	1,2,4-TRICHLOROBENZENE	4.8	U	0.63	4.8	UG/M3	4.8	U
EPD-UW-01-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.63	U	0.15	0.63	UG/M3	0.63	U
EPD-UW-01-032123	TO-15	1,2-DICHLOROBENZENE	0.78	U	0.17	0.78	UG/M3	0.78	U
EPD-UW-01-032123	TO-15	1,2-DICHLOROPROPANE	0.60	U	0.21	0.60	UG/M3	0.60	U
EPD-UW-01-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.63	U	0.20	0.63	UG/M3	0.63	U
EPD-UW-01-032123	TO-15	1,3-BUTADIENE	0.28	U	0.12	0.28	UG/M3	0.28	U
EPD-UW-01-032123	TO-15	1,3-DICHLOROBENZENE	0.78	U	0.16	0.78	UG/M3	0.78	U
EPD-UW-01-032123	TO-15	1,4-DIOXANE	0.46	U	0.25	0.46	UG/M3	0.46	U
EPD-UW-01-032123	TO-15	2,2,4-TRIMETHYLPENTANE	3.0	U	0.43	3.0	UG/M3	3.0	U
EPD-UW-01-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	1.9	U	0.43	1.9	UG/M3	1.9	U
EPD-UW-01-032123	TO-15	2-HEXANONE	2.6	U	0.54	2.6	UG/M3	2.6	U
EPD-UW-01-032123	TO-15	2-PROPANOL	6.3	U	0.34	6.3	UG/M3	6.3	U
EPD-UW-01-032123	TO-15	3-CHLOROPROPENE	2.0	U	0.44	2.0	UG/M3	2.0	U
EPD-UW-01-032123	TO-15	4-ETHYLTOLUENE	0.63	U	0.15	0.63	UG/M3	0.63	U
EPD-UW-01-032123	TO-15	4-METHYL-2-PENTANONE	0.53	U	0.11	0.53	UG/M3	0.53	U
EPD-UW-01-032123	TO-15	ACETONE	3.0	J	0.87	6.1	UG/M3	6.1	U
EPD-UW-01-032123	TO-15	ALPHA-CHLOROTOLUENE	0.67	U	0.35	0.67	UG/M3	0.67	U
EPD-UW-01-032123	TO-15	BROMODICHLOROMETHANE	0.86	U	0.18	0.86	UG/M3	0.86	U
EPD-UW-01-032123	TO-15	BROMOFORM	1.3	U	0.30	1.3	UG/M3	1.3	U
EPD-UW-01-032123	TO-15	BROMOMETHANE	25	U	1.9	25	UG/M3	25	U
EPD-UW-01-032123	TO-15	CARBON DISULFIDE	0.41	J	0.26	2.0	UG/M3	2.0	U
EPD-UW-01-032123	TO-15	CHLOROBENZENE	0.59	U	0.17	0.59	UG/M3	0.59	U
EPD-UW-01-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.58	U	0.18	0.58	UG/M3	0.58	U
EPD-UW-01-032123	TO-15	CUMENE	0.63	U	0.095	0.63	UG/M3	0.63	U
EPD-UW-01-032123	TO-15	CYCLOHEXANE	2.2	U	0.23	2.2	UG/M3	2.2	U
EPD-UW-01-032123	TO-15	DIBROMOCHLOROMETHANE	1.1	U	0.22	1.1	UG/M3	1.1	U
EPD-UW-01-032123	TO-15	ETHANOL	1.6	J	1.3	4.9	UG/M3	1.6	J
EPD-UW-01-032123	TO-15	FREON 11	1.0		0.11	0.72	UG/M3	1.0	
EPD-UW-01-032123	TO-15	FREON 113	0.36	J	0.12	0.99	UG/M3	0.36	J
EPD-UW-01-032123	TO-15	HEPTANE	2.6	U	0.53	2.6	UG/M3	2.6	UJ
EPD-UW-01-032123	TO-15	HEXACHLOROBUTADIENE	6.9	U	0.58	6.9	UG/M3	6.9	U

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-UW-01-032123	TO-15	HEXANE	2.3	U	0.38	2.3	UG/M3	2.3	U
EPD-UW-01-032123	TO-15	METHYLENE CHLORIDE	0.35	J	0.34	0.90	UG/M3	0.90	U
EPD-UW-01-032123	TO-15	PROPYLBENZENE	0.63	U	0.23	0.63	UG/M3	0.63	U
EPD-UW-01-032123	TO-15	STYRENE	0.55	U	0.10	0.55	UG/M3	0.55	U
EPD-UW-01-032123	TO-15	TETRAHYDROFURAN	1.9	U	1.2	1.9	UG/M3	1.9	U
EPD-UW-01-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.58	U	0.16	0.58	UG/M3	0.58	U
EPD-UW-01-032123	TO-15	2-ETHYL-1-HEXANOL	0	U			PPBV	0	U,NF
EPD-UW-01-032123	TO-15	BUTANE	1.5	NJ			PPBV	1.5	NJ
EPD-UW-01-032123	TO-15	BUTANE, 2-METHYL-	1.1	NJ			PPBV	1.1	NJ
EPD-UW-01-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0	U			PPBV	0	U,NF
EPD-UW-01-032123	TO-15	ISOBUTANE	0.71	NJ			PPBV	0.71	NJ
EPD-UW-01-032123	TO-15	PENTANE	0.80	NJ			PPBV	0.80	NJ
EPD-UW-01-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.14	U	0.019	0.14	UG/M3	0.14	U
EPD-UW-01-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.18	U	0.030	0.18	UG/M3	0.18	U
EPD-UW-01-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.14	U	0.028	0.14	UG/M3	0.14	U
EPD-UW-01-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.10	U	0.013	0.10	UG/M3	0.10	U
EPD-UW-01-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.051	U	0.026	0.051	UG/M3	0.051	U
EPD-UW-01-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.20	U	0.044	0.20	UG/M3	0.20	U
EPD-UW-01-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.083	J	0.020	0.10	UG/M3	0.083	J
EPD-UW-01-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.16	U	0.085	0.16	UG/M3	0.16	U
EPD-UW-01-032123	TO-15 SIM	BENZENE	0.91		0.040	0.21	UG/M3	0.91	
EPD-UW-01-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.35		0.030	0.16	UG/M3	0.35	J
EPD-UW-01-032123	TO-15 SIM	CHLOROETHANE	0.17	U	0.10	0.17	UG/M3	0.17	U
EPD-UW-01-032123	TO-15 SIM	CHLOROFORM	0.058	J	0.020	0.12	UG/M3	0.058	J
EPD-UW-01-032123	TO-15 SIM	CHLOROMETHANE	0.94	J	0.13	1.3	UG/M3	0.94	J
EPD-UW-01-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.10	U	0.022	0.10	UG/M3	0.10	U
EPD-UW-01-032123	TO-15 SIM	ETHYL BENZENE	0.12		0.008	0.11	UG/M3	0.12	
EPD-UW-01-032123	TO-15 SIM	FREON 114	0.096	J	0.026	0.18	UG/M3	0.096	J
EPD-UW-01-032123	TO-15 SIM	FREON 12	1.8		0.018	0.32	UG/M3	1.8	
EPD-UW-01-032123	TO-15 SIM	M,P-XYLENE	0.42		0.016	0.22	UG/M3	0.42	
EPD-UW-01-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.46	U	0.017	0.46	UG/M3	0.46	U
EPD-UW-01-032123	TO-15 SIM	NAPHTHALENE	0.34	U	0.063	0.34	UG/M3	0.34	U
EPD-UW-01-032123	TO-15 SIM	O-XYLENE	0.15		0.014	0.11	UG/M3	0.15	

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-UW-01-032123	TO-15 SIM	TETRACHLOROETHENE	0.076	J	0.0067	0.18	UG/M3	0.18	U
EPD-UW-01-032123	TO-15 SIM	TOLUENE	0.94		0.016	0.24	UG/M3	0.94	
EPD-UW-01-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.51	U	0.016	0.51	UG/M3	0.51	U
EPD-UW-01-032123	TO-15 SIM	TRICHLOROETHENE	0.14	U	0.012	0.14	UG/M3	0.14	U
EPD-UW-01-032123	TO-15 SIM	VINYL CHLORIDE	0.17		0.024	0.033	UG/M3	0.17	
EPD-WA-01-032123	TO-15	1,2,4-TRICHLOROBENZENE	4.9	U	1.1	4.9	UG/M3	4.9	U
EPD-WA-01-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.30	J	0.16	0.65	UG/M3	0.30	J
EPD-WA-01-032123	TO-15	1,2-DICHLOROBENZENE	0.79	U	0.12	0.79	UG/M3	0.79	U
EPD-WA-01-032123	TO-15	1,2-DICHLOROPROPANE	0.61	U	0.12	0.61	UG/M3	0.61	U
EPD-WA-01-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.65	U	0.13	0.65	UG/M3	0.65	U
EPD-WA-01-032123	TO-15	1,3-BUTADIENE	0.061	J	0.04	0.29	UG/M3	0.061	J
EPD-WA-01-032123	TO-15	1,3-DICHLOROBENZENE	0.79	U	0.079	0.79	UG/M3	0.79	U
EPD-WA-01-032123	TO-15	1,4-DIOXANE	0.48	U	0.069	0.48	UG/M3	0.48	U
EPD-WA-01-032123	TO-15	2,2,4-TRIMETHYLPENTANE	0.43	J	0.20	3.1	UG/M3	0.43	J
EPD-WA-01-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	1.2	J	0.33	1.9	UG/M3	1.2	J
EPD-WA-01-032123	TO-15	2-HEXANONE	2.7	U	0.51	2.7	UG/M3	2.7	U
EPD-WA-01-032123	TO-15	2-PROPANOL	6.5	U	0.16	6.5	UG/M3	6.5	U
EPD-WA-01-032123	TO-15	3-CHLOROPROPENE	2.1	U	0.18	2.1	UG/M3	2.1	U
EPD-WA-01-032123	TO-15	4-ETHYLTOLUENE	0.24	J	0.11	0.65	UG/M3	0.24	J
EPD-WA-01-032123	TO-15	4-METHYL-2-PENTANONE	0.54	U	0.16	0.54	UG/M3	0.54	U
EPD-WA-01-032123	TO-15	ACETONE	4.6	J	0.47	6.3	UG/M3	4.6	J
EPD-WA-01-032123	TO-15	ALPHA-CHLOROTOLUENE	0.68	U	0.20	0.68	UG/M3	0.68	U
EPD-WA-01-032123	TO-15	BROMODICHLOROMETHANE	0.88	U	0.11	0.88	UG/M3	0.88	U
EPD-WA-01-032123	TO-15	BROMOFORM	1.4	U	0.13	1.4	UG/M3	1.4	U
EPD-WA-01-032123	TO-15	BROMOMETHANE	26	U	1.2	26	UG/M3	26	U
EPD-WA-01-032123	TO-15	CARBON DISULFIDE	2.0	U	0.091	2.0	UG/M3	2.0	U
EPD-WA-01-032123	TO-15	CHLOROBENZENE	0.61	U	0.07	0.61	UG/M3	0.61	U
EPD-WA-01-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.60	U	0.16	0.60	UG/M3	0.60	U
EPD-WA-01-032123	TO-15	CUMENE	0.65	U	0.060	0.65	UG/M3	0.65	U
EPD-WA-01-032123	TO-15	CYCLOHEXANE	2.3	U	0.38	2.3	UG/M3	2.30	U
EPD-WA-01-032123	TO-15	DIBROMOCHLOROMETHANE	1.1	U	0.16	1.1	UG/M3	1.1	U
EPD-WA-01-032123	TO-15	ETHANOL	5.0		0.63	5.0	UG/M3	5.0	
EPD-WA-01-032123	TO-15	FREON 11	1.4		0.11	0.74	UG/M3	1.4	

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-01-032123	TO-15	FREON 113	0.51	J	0.1	1.0	UG/M3	0.51	J
EPD-WA-01-032123	TO-15	HEPTANE	2.7	U	0.38	2.7	UG/M3	2.7	UJ
EPD-WA-01-032123	TO-15	HEXACHLOROBUTADIENE	7.0	U	0.46	7.0	UG/M3	7.0	U
EPD-WA-01-032123	TO-15	HEXANE	0.71	J	0.21	2.3	UG/M3	0.71	J
EPD-WA-01-032123	TO-15	METHYLENE CHLORIDE	0.43	J	0.28	0.92	UG/M3	0.92	U
EPD-WA-01-032123	TO-15	PROPYLBENZENE	0.65	U	0.15	0.65	UG/M3	0.65	U
EPD-WA-01-032123	TO-15	STYRENE	0.56	U	0.091	0.56	UG/M3	0.56	U
EPD-WA-01-032123	TO-15	TETRAHYDROFURAN	1.9	U	0.33	1.9	UG/M3	1.9	U
EPD-WA-01-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.60	U	0.12	0.60	UG/M3	0.60	U
EPD-WA-01-032123	TO-15	2-ETHYL-1-HEXANOL	0	U			PPBV	0	U,NF
EPD-WA-01-032123	TO-15	BUTANE	3.5	NJ			PPBV	3.5	NJ
EPD-WA-01-032123	TO-15	BUTANE, 2-METHYL-	2.3	NJ			PPBV	2.3	NJ
EPD-WA-01-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0	U			PPBV	0	U,NF
EPD-WA-01-032123	TO-15	ISOBUTANE	2.0	NJ			PPBV	2.0	NJ
EPD-WA-01-032123	TO-15	PENTANE	1.1	NJ			PPBV	1.1	NJ
EPD-WA-01-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.14	U	0.019	0.14	UG/M3	0.14	U
EPD-WA-01-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.18	U	0.077	0.18	UG/M3	0.18	U
EPD-WA-01-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.14	U	0.05	0.14	UG/M3	0.14	U
EPD-WA-01-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.11	U	0.015	0.11	UG/M3	0.11	U
EPD-WA-01-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.052	U	0.02	0.052	UG/M3	0.052	U
EPD-WA-01-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.20	U	0.071	0.20	UG/M3	0.20	U
EPD-WA-01-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.087	J	0.027	0.11	UG/M3	0.087	J
EPD-WA-01-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.16	U	0.056	0.16	UG/M3	0.16	U
EPD-WA-01-032123	TO-15 SIM	BENZENE	0.90		0.024	0.21	UG/M3	0.90	
EPD-WA-01-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.46		0.035	0.17	UG/M3	0.46	J
EPD-WA-01-032123	TO-15 SIM	CHLOROETHANE	0.028	J	0.019	0.17	UG/M3	0.028	J
EPD-WA-01-032123	TO-15 SIM	CHLOROFORM	0.071	J	0.019	0.13	UG/M3	0.071	J
EPD-WA-01-032123	TO-15 SIM	CHLOROMETHANE	1.0	J	0.27	1.4	UG/M3	1.0	J
EPD-WA-01-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.10	U	0.0097	0.10	UG/M3	0.10	U
EPD-WA-01-032123	TO-15 SIM	ETHYL BENZENE	0.15		0.011	0.11	UG/M3	0.15	
EPD-WA-01-032123	TO-15 SIM	FREON 114	0.12	J	0.015	0.18	UG/M3	0.12	J
EPD-WA-01-032123	TO-15 SIM	FREON 12	2.3		0.024	0.33	UG/M3	2.3	
EPD-WA-01-032123	TO-15 SIM	M,P-XYLENE	0.57		0.007	0.23	UG/M3	0.57	

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-01-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.48 U		0.013	0.48	UG/M3	0.48 U	
EPD-WA-01-032123	TO-15 SIM	NAPHTHALENE	0.34 U		0.10	0.34	UG/M3	0.34 U	
EPD-WA-01-032123	TO-15 SIM	O-XYLENE	0.21		0.0097	0.11	UG/M3	0.21	
EPD-WA-01-032123	TO-15 SIM	TETRACHLOROETHENE	1.5		0.098	0.18	UG/M3	1.5	
EPD-WA-01-032123	TO-15 SIM	TOLUENE	1.2		0.013	0.25	UG/M3	1.2	
EPD-WA-01-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.52 U		0.012	0.52	UG/M3	0.52 U	
EPD-WA-01-032123	TO-15 SIM	TRICHLOROETHENE	0.14 U		0.019	0.14	UG/M3	0.14 U	
EPD-WA-01-032123	TO-15 SIM	VINYL CHLORIDE	0.75		0.010	0.034	UG/M3	0.75	
EPD-WA-02-032123	TO-15	1,2,4-TRICHLOROBENZENE	8.5 U		1.9	8.5	UG/M3	8.5 U	
EPD-WA-02-032123	TO-15	1,2,4-TRIMETHYLBENZENE	1.1 U		0.27	1.1	UG/M3	1.1 U	
EPD-WA-02-032123	TO-15	1,2-DICHLOROBENZENE	1.4 U		0.22	1.4	UG/M3	1.4 U	
EPD-WA-02-032123	TO-15	1,2-DICHLOROPROPANE	1.1 U		0.22	1.1	UG/M3	1.1 U	
EPD-WA-02-032123	TO-15	1,3,5-TRIMETHYLBENZENE	1.1 U		0.23	1.1	UG/M3	1.1 U	
EPD-WA-02-032123	TO-15	1,3-BUTADIENE	0.51 U		0.07	0.51	UG/M3	0.51 U	
EPD-WA-02-032123	TO-15	1,3-DICHLOROBENZENE	1.4 U		0.14	1.4	UG/M3	1.4 U	
EPD-WA-02-032123	TO-15	1,4-DIOXANE	0.83 U		0.12	0.83	UG/M3	0.83 U	
EPD-WA-02-032123	TO-15	2,2,4-TRIMETHYLPENTANE	0.4 J		0.35	5.4	UG/M3	0.40 J	
EPD-WA-02-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	0.69 J		0.58	3.4	UG/M3	0.69 J	
EPD-WA-02-032123	TO-15	2-HEXANONE	4.7 U		0.9	4.7	UG/M3	4.7 U	
EPD-WA-02-032123	TO-15	2-PROPANOL	11 U		0.27	11	UG/M3	11 U	
EPD-WA-02-032123	TO-15	3-CHLOROPROPENE	3.6 U		0.32	3.6	UG/M3	3.6 U	
EPD-WA-02-032123	TO-15	4-ETHYLTOLUENE	0.19 J		0.19	1.1	UG/M3	0.19 J	
EPD-WA-02-032123	TO-15	4-METHYL-2-PENTANONE	0.94 U		0.29	0.94	UG/M3	0.94 U	
EPD-WA-02-032123	TO-15	ACETONE	6.6 J		0.82	11	UG/M3	11 U	
EPD-WA-02-032123	TO-15	ALPHA-CHLOROTOLUENE	1.2 U		0.34	1.2	UG/M3	1.2 U	
EPD-WA-02-032123	TO-15	BROMODICHLOROMETHANE	1.5 U		0.19	1.5	UG/M3	1.5 U	
EPD-WA-02-032123	TO-15	BROMOFORM	2.4 U		0.23	2.4	UG/M3	2.4 U	
EPD-WA-02-032123	TO-15	BROMOMETHANE	45 U		2.1	45	UG/M3	45 U	
EPD-WA-02-032123	TO-15	CARBON DISULFIDE	3.6 U		0.16	3.6	UG/M3	3.6 U	
EPD-WA-02-032123	TO-15	CHLOROBENZENE	1.0 U		0.12	1.0	UG/M3	1.0 U	
EPD-WA-02-032123	TO-15	CIS-1,3-DICHLOROPROPENE	1.0 U		0.28	1.0	UG/M3	1.0 U	
EPD-WA-02-032123	TO-15	CUMENE	1.1 U		0.10	1.1	UG/M3	1.1 U	
EPD-WA-02-032123	TO-15	CYCLOHEXANE	4.0 U		0.67	4.0	UG/M3	4.0 U	

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-02-032123	TO-15	DIBROMOCHLOROMETHANE	2.0	U	0.29	2.0	UG/M3	2.0	U
EPD-WA-02-032123	TO-15	ETHANOL	2.2	J	1.1	8.7	UG/M3	2.2	J
EPD-WA-02-032123	TO-15	FREON 11	1.2	J	0.19	1.3	UG/M3	1.2	J
EPD-WA-02-032123	TO-15	FREON 113	0.43	J	0.18	1.8	UG/M3	0.43	J
EPD-WA-02-032123	TO-15	HEPTANE	4.7	U	0.66	4.7	UG/M3	4.7	U
EPD-WA-02-032123	TO-15	HEXACHLOROBUTADIENE	12	U	0.81	12	UG/M3	12	U
EPD-WA-02-032123	TO-15	HEXANE	4.0	U	0.37	4.0	UG/M3	4.0	U
EPD-WA-02-032123	TO-15	METHYLENE CHLORIDE	1.6	U	0.50	1.6	UG/M3	1.6	U
EPD-WA-02-032123	TO-15	PROPYLBENZENE	1.1	U	0.26	1.1	UG/M3	1.1	U
EPD-WA-02-032123	TO-15	STYRENE	0.98	U	0.16	0.98	UG/M3	0.98	U
EPD-WA-02-032123	TO-15	TETRAHYDROFURAN	3.4	U	0.57	3.4	UG/M3	3.4	U
EPD-WA-02-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	1.0	U	0.21	1.0	UG/M3	1.0	U
EPD-WA-02-032123	TO-15	2-ETHYL-1-HEXANOL	0	U			PPBV	0	U,NF
EPD-WA-02-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0	U			PPBV	0	U,NF
EPD-WA-02-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.25	U	0.033	0.25	UG/M3	0.25	U
EPD-WA-02-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.32	U	0.13	0.32	UG/M3	0.32	U
EPD-WA-02-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.25	U	0.086	0.25	UG/M3	0.25	U
EPD-WA-02-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.19	U	0.026	0.19	UG/M3	0.19	U
EPD-WA-02-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.091	U	0.035	0.091	UG/M3	0.091	U
EPD-WA-02-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.35	U	0.12	0.35	UG/M3	0.35	U
EPD-WA-02-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.091	J	0.047	0.19	UG/M3	0.091	J
EPD-WA-02-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.28	U	0.098	0.28	UG/M3	0.28	U
EPD-WA-02-032123	TO-15 SIM	BENZENE	0.90		0.042	0.37	UG/M3	0.90	
EPD-WA-02-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.44		0.062	0.29	UG/M3	0.44	J
EPD-WA-02-032123	TO-15 SIM	CHLOROETHANE	0.30	U	0.033	0.30	UG/M3	0.30	U
EPD-WA-02-032123	TO-15 SIM	CHLOROFORM	0.070	J	0.033	0.22	UG/M3	0.070	J
EPD-WA-02-032123	TO-15 SIM	CHLOROMETHANE	1.1	J	0.48	2.4	UG/M3	1.1	J
EPD-WA-02-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.18	U	0.017	0.18	UG/M3	0.18	U
EPD-WA-02-032123	TO-15 SIM	ETHYL BENZENE	0.16	J	0.019	0.20	UG/M3	0.16	J
EPD-WA-02-032123	TO-15 SIM	FREON 114	0.12	J	0.026	0.32	UG/M3	0.12	J
EPD-WA-02-032123	TO-15 SIM	FREON 12	2.3		0.042	0.57	UG/M3	2.3	
EPD-WA-02-032123	TO-15 SIM	M,P-XYLENE	0.56		0.012	0.40	UG/M3	0.56	
EPD-WA-02-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.83	U	0.023	0.83	UG/M3	0.83	U



E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-02-032123	TO-15 SIM	NAPHTHALENE	0.60	U	0.17	0.60	UG/M3	0.60	U
EPD-WA-02-032123	TO-15 SIM	O-XYLENE	0.20		0.017	0.20	UG/M3	0.20	
EPD-WA-02-032123	TO-15 SIM	TETRACHLOROETHENE	0.31	U	0.17	0.31	UG/M3	0.31	U
EPD-WA-02-032123	TO-15 SIM	TOLUENE	1.0		0.022	0.43	UG/M3	1.0	
EPD-WA-02-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.91	U	0.021	0.91	UG/M3	0.91	U
EPD-WA-02-032123	TO-15 SIM	TRICHLOROETHENE	0.25	U	0.034	0.25	UG/M3	0.25	U
EPD-WA-02-032123	TO-15 SIM	VINYL CHLORIDE	0.47		0.017	0.059	UG/M3	0.47	
EPD-WA-03-032123	TO-15	1,2,4-TRICHLOROBENZENE	4.6	U	0.61	4.6	UG/M3	4.6	U
EPD-WA-03-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.61	U	0.15	0.61	UG/M3	0.61	U
EPD-WA-03-032123	TO-15	1,2-DICHLOROBENZENE	0.75	U	0.16	0.75	UG/M3	0.75	U
EPD-WA-03-032123	TO-15	1,2-DICHLOROPROPANE	0.58	U	0.2	0.58	UG/M3	0.58	U
EPD-WA-03-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.61	U	0.19	0.61	UG/M3	0.61	U
EPD-WA-03-032123	TO-15	1,3-BUTADIENE	0.28	U	0.11	0.28	UG/M3	0.28	U
EPD-WA-03-032123	TO-15	1,3-DICHLOROBENZENE	0.75	U	0.16	0.75	UG/M3	0.75	U
EPD-WA-03-032123	TO-15	1,4-DIOXANE	0.45	U	0.25	0.45	UG/M3	0.45	U
EPD-WA-03-032123	TO-15	2,2,4-TRIMETHYLPENTANE	2.9	U	0.41	2.9	UG/M3	2.9	U
EPD-WA-03-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	1.8	U	0.41	1.8	UG/M3	1.8	U
EPD-WA-03-032123	TO-15	2-HEXANONE	2.6	U	0.52	2.6	UG/M3	2.6	U
EPD-WA-03-032123	TO-15	2-PROPANOL	6.1	U	0.33	6.1	UG/M3	6.1	U
EPD-WA-03-032123	TO-15	3-CHLOROPROPENE	2	U	0.43	2	UG/M3	2.0	U
EPD-WA-03-032123	TO-15	4-ETHYLTOLUENE	0.61	U	0.14	0.61	UG/M3	0.61	U
EPD-WA-03-032123	TO-15	4-METHYL-2-PENTANONE	0.15	J	0.11	0.51	UG/M3	0.15	J
EPD-WA-03-032123	TO-15	ACETONE	3.5	J	0.84	5.9	UG/M3	5.9	U
EPD-WA-03-032123	TO-15	ALPHA-CHLOROTOLUENE	0.65	U	0.34	0.65	UG/M3	0.65	U
EPD-WA-03-032123	TO-15	BROMODICHLOROMETHANE	0.84	U	0.18	0.84	UG/M3	0.84	U
EPD-WA-03-032123	TO-15	BROMOFORM	1.3	U	0.29	1.3	UG/M3	1.3	U
EPD-WA-03-032123	TO-15	BROMOMETHANE	24	U	1.9	24	UG/M3	24	U
EPD-WA-03-032123	TO-15	CARBON DISULFIDE	0.39	J	0.26	1.9	UG/M3	1.9	U
EPD-WA-03-032123	TO-15	CHLOROBENZENE	0.58	U	0.16	0.58	UG/M3	0.58	U
EPD-WA-03-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.57	U	0.17	0.57	UG/M3	0.57	U
EPD-WA-03-032123	TO-15	CUMENE	0.61	U	0.092	0.61	UG/M3	0.61	U
EPD-WA-03-032123	TO-15	CYCLOHEXANE	2.2	U	0.22	2.2	UG/M3	2.2	U
EPD-WA-03-032123	TO-15	DIBROMOCHLOROMETHANE	1.1	U	0.22	1.1	UG/M3	1.1	U

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-03-032123	TO-15	ETHANOL	1.6 J		1.3	4.7	UG/M3	1.6 J	
EPD-WA-03-032123	TO-15	FREON 11	1.0		0.11	0.70	UG/M3	1.0	
EPD-WA-03-032123	TO-15	FREON 113	0.48 J		0.12	0.96	UG/M3	0.48 J	
EPD-WA-03-032123	TO-15	HEPTANE	2.6 U		0.52	2.6	UG/M3	2.6 U	
EPD-WA-03-032123	TO-15	HEXACHLOROBUTADIENE	6.7 U		0.56	6.7	UG/M3	6.7 U	
EPD-WA-03-032123	TO-15	HEXANE	2.2 U		0.37	2.2	UG/M3	2.2 U	
EPD-WA-03-032123	TO-15	METHYLENE CHLORIDE	0.36 J		0.33	0.87	UG/M3	0.87 U	
EPD-WA-03-032123	TO-15	PROPYLBENZENE	0.61 U		0.22	0.61	UG/M3	0.61 U	
EPD-WA-03-032123	TO-15	STYRENE	0.53 U		0.099	0.53	UG/M3	0.53 U	
EPD-WA-03-032123	TO-15	TETRAHYDROFURAN	1.8 U		1.2	1.8	UG/M3	1.8 U	
EPD-WA-03-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.57 U		0.15	0.57	UG/M3	0.57 U	
EPD-WA-03-032123	TO-15	2-ETHYL-1-HEXANOL	0 U				PPBV	0 U,NF	
EPD-WA-03-032123	TO-15	2-PROPENOIC ACID, BUTYL ESTER	0.70 NJ				PPBV	0.70 NJ	
EPD-WA-03-032123	TO-15	BUTANE	1.1 NJ				PPBV	1.1 NJ	
EPD-WA-03-032123	TO-15	BUTANE, 2-METHYL-	0.70 NJ				PPBV	0.70 NJ	
EPD-WA-03-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.14 U		0.018	0.14	UG/M3	0.14 U	
EPD-WA-03-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.17 U		0.029	0.17	UG/M3	0.17 U	
EPD-WA-03-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.14 U		0.027	0.14	UG/M3	0.14 U	
EPD-WA-03-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.10 U		0.012	0.10	UG/M3	0.10 U	
EPD-WA-03-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.050 U		0.025	0.050	UG/M3	0.050 U	
EPD-WA-03-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.19 U		0.043	0.19	UG/M3	0.19 U	
EPD-WA-03-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.086 J		0.020	0.10	UG/M3	0.086 J	
EPD-WA-03-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.15 U		0.082	0.15	UG/M3	0.15 U	
EPD-WA-03-032123	TO-15 SIM	BENZENE	0.52		0.039	0.20	UG/M3	0.52	
EPD-WA-03-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.35		0.029	0.16	UG/M3	0.35 J	
EPD-WA-03-032123	TO-15 SIM	CHLOROETHANE	0.16 U		0.10	0.16	UG/M3	0.16 U	
EPD-WA-03-032123	TO-15 SIM	CHLOROFORM	0.056 J		0.019	0.12	UG/M3	0.056 J	
EPD-WA-03-032123	TO-15 SIM	CHLOROMETHANE	0.96 J		0.13	1.3	UG/M3	0.96 J	
EPD-WA-03-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.099 U		0.021	0.099	UG/M3	0.099 U	
EPD-WA-03-032123	TO-15 SIM	ETHYL BENZENE	0.069 J		0.0077	0.11	UG/M3	0.069 J	
EPD-WA-03-032123	TO-15 SIM	FREON 114	0.097 J		0.025	0.17	UG/M3	0.097 J	
EPD-WA-03-032123	TO-15 SIM	FREON 12	1.8		0.018	0.31	UG/M3	1.8	
EPD-WA-03-032123	TO-15 SIM	M,P-XYLENE	0.22		0.016	0.22	UG/M3	0.22	

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-03-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.45 U		0.017	0.45	UG/M3	0.45 U	
EPD-WA-03-032123	TO-15 SIM	NAPHTHALENE	0.33 U		0.061	0.33	UG/M3	0.33 U	
EPD-WA-03-032123	TO-15 SIM	O-XYLENE	0.089 J		0.013	0.11	UG/M3	0.089 J	
EPD-WA-03-032123	TO-15 SIM	TETRACHLOROETHENE	0.072 J		0.0065	0.17	UG/M3	0.17 U	
EPD-WA-03-032123	TO-15 SIM	TOLUENE	0.54		0.016	0.24	UG/M3	0.54	
EPD-WA-03-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.50 U		0.015	0.50	UG/M3	0.50 U	
EPD-WA-03-032123	TO-15 SIM	TRICHLOROETHENE	0.13 U		0.012	0.13	UG/M3	0.13 U	
EPD-WA-03-032123	TO-15 SIM	VINYL CHLORIDE	1.1		0.023	0.032	UG/M3	1.1	
EPD-WA-05-032123	TO-15	1,2,4-TRICHLOROBENZENE	5.0 U		0.66	5.0	UG/M3	5.0 U	
EPD-WA-05-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.66 U		0.16	0.66	UG/M3	0.66 U	
EPD-WA-05-032123	TO-15	1,2-DICHLOROBENZENE	0.80 U		0.17	0.80	UG/M3	0.80 U	
EPD-WA-05-032123	TO-15	1,2-DICHLOROPROPANE	0.62 U		0.22	0.62	UG/M3	0.62 U	
EPD-WA-05-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.66 U		0.20	0.66	UG/M3	0.66 U	
EPD-WA-05-032123	TO-15	1,3-BUTADIENE	0.30 U		0.12	0.30	UG/M3	0.30 U	
EPD-WA-05-032123	TO-15	1,3-DICHLOROBENZENE	0.80 U		0.17	0.80	UG/M3	0.80 U	
EPD-WA-05-032123	TO-15	1,4-DIOXANE	0.48 U		0.26	0.48	UG/M3	0.48 U	
EPD-WA-05-032123	TO-15	2,2,4-TRIMETHYLPENTANE	3.1 U		0.44	3.1	UG/M3	3.1 U	
EPD-WA-05-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	0.57 J		0.44	2.0	UG/M3	0.57 J	
EPD-WA-05-032123	TO-15	2-HEXANONE	2.7 U		0.56	2.7	UG/M3	2.7 U	
EPD-WA-05-032123	TO-15	2-PROPANOL	6.6 U		0.35	6.6	UG/M3	6.6 U	
EPD-WA-05-032123	TO-15	3-CHLOROPROPENE	2.1 U		0.46	2.1	UG/M3	2.1 U	
EPD-WA-05-032123	TO-15	4-ETHYLTOLUENE	0.66 U		0.16	0.66	UG/M3	0.66 U	
EPD-WA-05-032123	TO-15	4-METHYL-2-PENTANONE	0.55 U		0.12	0.55	UG/M3	0.55 U	
EPD-WA-05-032123	TO-15	ACETONE	4.2 J		0.90	6.4	UG/M3	6.4 U	
EPD-WA-05-032123	TO-15	ALPHA-CHLOROTOLUENE	0.69 U		0.36	0.69	UG/M3	0.69 U	
EPD-WA-05-032123	TO-15	BROMODICHLOROMETHANE	0.90 U		0.19	0.90	UG/M3	0.90 U	
EPD-WA-05-032123	TO-15	BROMOFORM	1.4 U		0.32	1.4	UG/M3	1.4 U	
EPD-WA-05-032123	TO-15	BROMOMETHANE	26 U		2.0	26	UG/M3	26 U	
EPD-WA-05-032123	TO-15	CARBON DISULFIDE	0.42 J		0.27	2.1	UG/M3	2.1 U	
EPD-WA-05-032123	TO-15	CHLOROBENZENE	0.62 U		0.18	0.62	UG/M3	0.62 U	
EPD-WA-05-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.61 U		0.18	0.61	UG/M3	0.61 U	
EPD-WA-05-032123	TO-15	CUMENE	0.66 U		0.099	0.66	UG/M3	0.66 U	
EPD-WA-05-032123	TO-15	CYCLOHEXANE	2.3 U		0.24	2.3	UG/M3	2.3 U	

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-05-032123	TO-15	DIBROMOCHLOROMETHANE	1.1	U	0.23	1.1	UG/M3	1.1	U
EPD-WA-05-032123	TO-15	ETHANOL	2.0	J	1.4	5.0	UG/M3	2.0	J
EPD-WA-05-032123	TO-15	FREON 11	0.98		0.12	0.75	UG/M3	0.98	
EPD-WA-05-032123	TO-15	FREON 113	0.43	J	0.13	1.0	UG/M3	0.43	J
EPD-WA-05-032123	TO-15	HEPTANE	2.7	U	0.56	2.7	UG/M3	2.7	U
EPD-WA-05-032123	TO-15	HEXACHLOROBUTADIENE	7.1	U	0.60	7.1	UG/M3	7.1	U
EPD-WA-05-032123	TO-15	HEXANE	2.4	U	0.39	2.4	UG/M3	2.4	U
EPD-WA-05-032123	TO-15	METHYLENE CHLORIDE	0.37	J	0.35	0.93	UG/M3	0.93	U
EPD-WA-05-032123	TO-15	PROPYLBENZENE	0.66	U	0.24	0.66	UG/M3	0.66	U
EPD-WA-05-032123	TO-15	STYRENE	0.57	U	0.11	0.57	UG/M3	0.57	U
EPD-WA-05-032123	TO-15	TETRAHYDROFURAN	2.0	U	1.3	2.0	UG/M3	2.0	U
EPD-WA-05-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.61	U	0.16	0.61	UG/M3	0.61	U
EPD-WA-05-032123	TO-15	2-ETHYL-1-HEXANOL	0	U			PPBV	0	U,NF
EPD-WA-05-032123	TO-15	3-HEXENE, (E)-	0.74	NJ			PPBV	0.74	NJ
EPD-WA-05-032123	TO-15	BUTANE	1.9	NJ			PPBV	1.9	NJ
EPD-WA-05-032123	TO-15	BUTANE, 2-METHYL-	1.5	NJ			PPBV	1.5	NJ
EPD-WA-05-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0	U			PPBV	0	U,NF
EPD-WA-05-032123	TO-15	ISOBUTANE	0.96	NJ			PPBV	0.96	NJ
EPD-WA-05-032123	TO-15	NONANAL	0.88	NJ			PPBV	0.88	NJ
EPD-WA-05-032123	TO-15	PENTANE	0.75	NJ			PPBV	0.75	NJ
EPD-WA-05-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.15	U	0.02	0.15	UG/M3	0.15	U
EPD-WA-05-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.18	U	0.031	0.18	UG/M3	0.18	U
EPD-WA-05-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.15	U	0.029	0.15	UG/M3	0.15	U
EPD-WA-05-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.11	U	0.013	0.11	UG/M3	0.11	U
EPD-WA-05-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.053	U	0.027	0.053	UG/M3	0.053	U
EPD-WA-05-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.20	U	0.046	0.20	UG/M3	0.20	U
EPD-WA-05-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.083	J	0.021	0.11	UG/M3	0.083	J
EPD-WA-05-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.16	U	0.088	0.16	UG/M3	0.16	U
EPD-WA-05-032123	TO-15 SIM	BENZENE	0.69		0.041	0.21	UG/M3	0.69	
EPD-WA-05-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.36		0.031	0.17	UG/M3	0.36	J
EPD-WA-05-032123	TO-15 SIM	CHLOROETHANE	0.18	U	0.11	0.18	UG/M3	0.18	U
EPD-WA-05-032123	TO-15 SIM	CHLOROFORM	0.058	J	0.021	0.13	UG/M3	0.058	J
EPD-WA-05-032123	TO-15 SIM	CHLOROMETHANE	0.95	J	0.14	1.4	UG/M3	0.95	J

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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-05-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.11 U		0.023	0.11	UG/M3	0.11 U	
EPD-WA-05-032123	TO-15 SIM	ETHYL BENZENE	0.13		0.0083	0.12	UG/M3	0.13	
EPD-WA-05-032123	TO-15 SIM	FREON 114	0.10 J		0.026	0.19	UG/M3	0.10 J	
EPD-WA-05-032123	TO-15 SIM	FREON 12	1.8		0.019	0.33	UG/M3	1.8	
EPD-WA-05-032123	TO-15 SIM	M,P-XYLENE	0.45		0.017	0.23	UG/M3	0.45	
EPD-WA-05-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.48 U		0.018	0.48	UG/M3	0.48 U	
EPD-WA-05-032123	TO-15 SIM	NAPHTHALENE	0.35 U		0.066	0.35	UG/M3	0.35 U	
EPD-WA-05-032123	TO-15 SIM	O-XYLENE	0.16		0.014	0.12	UG/M3	0.16	
EPD-WA-05-032123	TO-15 SIM	TETRACHLOROETHENE	0.081 J		0.007	0.18	UG/M3	0.18 U	
EPD-WA-05-032123	TO-15 SIM	TOLUENE	1.0		0.017	0.25	UG/M3	1.0	
EPD-WA-05-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.53 U		0.016	0.53	UG/M3	0.53 U	
EPD-WA-05-032123	TO-15 SIM	TRICHLOROETHENE	0.14 U		0.013	0.14	UG/M3	0.14 U	
EPD-WA-05-032123	TO-15 SIM	VINYL CHLORIDE	0.042		0.025	0.034	UG/M3	0.042	
EPD-WA-06-032123	TO-15	1,2,4-TRICHLOROBENZENE	4.8 U		1.0	4.8	UG/M3	4.8 U	
EPD-WA-06-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.65		0.15	0.63	UG/M3	0.65	
EPD-WA-06-032123	TO-15	1,2-DICHLOROBENZENE	0.78 U		0.12	0.78	UG/M3	0.78 U	
EPD-WA-06-032123	TO-15	1,2-DICHLOROPROPANE	0.60 U		0.12	0.60	UG/M3	0.60 U	
EPD-WA-06-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.19 J		0.13	0.63	UG/M3	0.19 J	
EPD-WA-06-032123	TO-15	1,3-BUTADIENE	0.2 J		0.039	0.28	UG/M3	0.20 J	
EPD-WA-06-032123	TO-15	1,3-DICHLOROBENZENE	0.78 U		0.077	0.78	UG/M3	0.78 U	
EPD-WA-06-032123	TO-15	1,4-DIOXANE	0.46 U		0.067	0.46	UG/M3	0.46 U	
EPD-WA-06-032123	TO-15	2,2,4-TRIMETHYLPENTANE	0.69 J		0.20	3.0	UG/M3	0.69 J	
EPD-WA-06-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	0.52 J		0.32	1.9	UG/M3	0.52 J	
EPD-WA-06-032123	TO-15	2-HEXANONE	2.6 U		0.50	2.6	UG/M3	2.6 U	
EPD-WA-06-032123	TO-15	2-PROPANOL	6.3 U		0.15	6.3	UG/M3	6.3 U	
EPD-WA-06-032123	TO-15	3-CHLOROPROPENE	2.0 U		0.18	2.0	UG/M3	2.0 U	
EPD-WA-06-032123	TO-15	4-ETHYLTOLUENE	0.54 J		0.11	0.63	UG/M3	0.54 J	
EPD-WA-06-032123	TO-15	4-METHYL-2-PENTANONE	0.53 U		0.16	0.53	UG/M3	0.53 U	
EPD-WA-06-032123	TO-15	ACETONE	4.8 J		0.46	6.1	UG/M3	6.1 U	
EPD-WA-06-032123	TO-15	ALPHA-CHLOROTOLUENE	0.67 U		0.19	0.67	UG/M3	0.67 U	
EPD-WA-06-032123	TO-15	BROMODICHLOROMETHANE	0.86 U		0.11	0.86	UG/M3	0.86 U	
EPD-WA-06-032123	TO-15	BROMOFORM	1.3 U		0.13	1.3	UG/M3	1.3 U	
EPD-WA-06-032123	TO-15	BROMOMETHANE	25 U		1.2	25	UG/M3	25 U	

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-06-032123	TO-15	CARBON DISULFIDE	2.0 U		0.089	2.0	UG/M3	2.0 U	
EPD-WA-06-032123	TO-15	CHLOROBENZENE	0.59 U		0.068	0.59	UG/M3	0.59 U	
EPD-WA-06-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.58 U		0.16	0.58	UG/M3	0.58 U	
EPD-WA-06-032123	TO-15	CUMENE	0.63 U		0.058	0.63	UG/M3	0.63 U	
EPD-WA-06-032123	TO-15	CYCLOHEXANE	2.2 U		0.37	2.2	UG/M3	2.2 U	
EPD-WA-06-032123	TO-15	DIBROMOCHLOROMETHANE	1.1 U		0.16	1.1	UG/M3	1.1 U	
EPD-WA-06-032123	TO-15	ETHANOL	10		0.62	4.9	UG/M3	10	
EPD-WA-06-032123	TO-15	FREON 11	1.2		0.11	0.72	UG/M3	1.2	
EPD-WA-06-032123	TO-15	FREON 113	0.54 J		0.10	0.99	UG/M3	0.54 J	
EPD-WA-06-032123	TO-15	HEPTANE	0.56 J		0.37	2.6	UG/M3	0.56 J	
EPD-WA-06-032123	TO-15	HEXACHLOROBUTADIENE	6.9 U		0.45	6.9	UG/M3	6.9 U	
EPD-WA-06-032123	TO-15	HEXANE	0.84 J		0.20	2.3	UG/M3	0.84 J	
EPD-WA-06-032123	TO-15	METHYLENE CHLORIDE	0.44 J		0.28	0.90	UG/M3	0.90 U	
EPD-WA-06-032123	TO-15	PROPYLBENZENE	0.63 U		0.15	0.63	UG/M3	0.63 U	
EPD-WA-06-032123	TO-15	STYRENE	0.55 U		0.089	0.55	UG/M3	0.55 U	
EPD-WA-06-032123	TO-15	TETRAHYDROFURAN	1.9 U		0.32	1.9	UG/M3	1.9 U	
EPD-WA-06-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.58 U		0.12	0.58	UG/M3	0.58 U	
EPD-WA-06-032123	TO-15	2-ETHYL-1-HEXANOL	0 U				PPBV	0 U,NF	
EPD-WA-06-032123	TO-15	BUTANE	1.2 NJ				PPBV	1.2 NJ	
EPD-WA-06-032123	TO-15	BUTANE, 2-METHYL-	1.2 NJ				PPBV	1.2 NJ	
EPD-WA-06-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0 U				PPBV	0 U,NF	
EPD-WA-06-032123	TO-15	ISOBUTANE	0.68 NJ				PPBV	0.68 NJ	
EPD-WA-06-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.14 U		0.018	0.14	UG/M3	0.14 U	
EPD-WA-06-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.18 U		0.075	0.18	UG/M3	0.18 U	
EPD-WA-06-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.14 U		0.048	0.14	UG/M3	0.14 U	
EPD-WA-06-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.10 U		0.015	0.10	UG/M3	0.10 U	
EPD-WA-06-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.051 U		0.020	0.051	UG/M3	0.051 U	
EPD-WA-06-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.20 U		0.070	0.20	UG/M3	0.20 U	
EPD-WA-06-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.086 J		0.027	0.10	UG/M3	0.086 J	
EPD-WA-06-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.16 U		0.055	0.16	UG/M3	0.16 U	
EPD-WA-06-032123	TO-15 SIM	BENZENE	1.7		0.023	0.21	UG/M3	1.7	
EPD-WA-06-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.43		0.034	0.16	UG/M3	0.43 J	
EPD-WA-06-032123	TO-15 SIM	CHLOROETHANE	0.17 U		0.019	0.17	UG/M3	0.17 U	

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-06-032123	TO-15 SIM	CHLOROFORM	0.084	J	0.018	0.12	UG/M3	0.084	J
EPD-WA-06-032123	TO-15 SIM	CHLOROMETHANE	0.98	J	0.27	1.3	UG/M3	0.98	J
EPD-WA-06-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.10	U	0.0095	0.10	UG/M3	0.10	U
EPD-WA-06-032123	TO-15 SIM	ETHYL BENZENE	0.43		0.011	0.11	UG/M3	0.43	
EPD-WA-06-032123	TO-15 SIM	FREON 114	0.12	J	0.015	0.18	UG/M3	0.12	J
EPD-WA-06-032123	TO-15 SIM	FREON 12	2.2		0.023	0.32	UG/M3	2.2	
EPD-WA-06-032123	TO-15 SIM	M,P-XYLENE	1.3		0.0068	0.22	UG/M3	1.3	
EPD-WA-06-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.46	U	0.013	0.46	UG/M3	0.46	U
EPD-WA-06-032123	TO-15 SIM	NAPHTHALENE	0.12	J	0.098	0.34	UG/M3	0.12	J
EPD-WA-06-032123	TO-15 SIM	O-XYLENE	0.49		0.0095	0.11	UG/M3	0.49	
EPD-WA-06-032123	TO-15 SIM	TETRACHLOROETHENE	0.18	U	0.096	0.18	UG/M3	0.18	U
EPD-WA-06-032123	TO-15 SIM	TOLUENE	2.7		0.012	0.24	UG/M3	2.7	
EPD-WA-06-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.51	U	0.012	0.51	UG/M3	0.51	U
EPD-WA-06-032123	TO-15 SIM	TRICHLOROETHENE	0.029	J	0.019	0.14	UG/M3	0.029	J
EPD-WA-06-032123	TO-15 SIM	VINYL CHLORIDE	0.55		0.0096	0.033	UG/M3	0.55	
EPD-WA-66-032123	TO-15	1,2,4-TRICHLOROBENZENE	7.1	U	1.6	7.1	UG/M3	7.1	U
EPD-WA-66-032123	TO-15	1,2,4-TRIMETHYLBENZENE	0.64	J	0.22	0.94	UG/M3	0.64	J
EPD-WA-66-032123	TO-15	1,2-DICHLOROBENZENE	1.1	U	0.18	1.1	UG/M3	1.1	U
EPD-WA-66-032123	TO-15	1,2-DICHLOROPROPANE	0.88	U	0.18	0.88	UG/M3	0.88	U
EPD-WA-66-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.24	J	0.19	0.94	UG/M3	0.24	J
EPD-WA-66-032123	TO-15	1,3-BUTADIENE	0.28	J	0.058	0.42	UG/M3	0.28	J
EPD-WA-66-032123	TO-15	1,3-DICHLOROBENZENE	1.1	U	0.11	1.1	UG/M3	1.1	U
EPD-WA-66-032123	TO-15	1,4-DIOXANE	0.69	U	0.099	0.69	UG/M3	0.69	U
EPD-WA-66-032123	TO-15	2,2,4-TRIMETHYLPENTANE	1.0	J	0.29	4.5	UG/M3	1.0	J
EPD-WA-66-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	1.4	J	0.48	2.8	UG/M3	1.4	J
EPD-WA-66-032123	TO-15	2-HEXANONE	3.9	U	0.74	3.9	UG/M3	3.9	U
EPD-WA-66-032123	TO-15	2-PROPANOL	7.1	J	0.23	9.4	UG/M3	7.1	J
EPD-WA-66-032123	TO-15	3-CHLOROPROPENE	3.0	U	0.26	3.0	UG/M3	3.0	U
EPD-WA-66-032123	TO-15	4-ETHYLTOLUENE	0.64	J	0.16	0.94	UG/M3	0.64	J
EPD-WA-66-032123	TO-15	4-METHYL-2-PENTANONE	0.78	U	0.24	0.78	UG/M3	0.78	U
EPD-WA-66-032123	TO-15	ACETONE	12		0.68	9.1	UG/M3	12	
EPD-WA-66-032123	TO-15	ALPHA-CHLOROTOLUENE	0.99	U	0.29	0.99	UG/M3	0.99	U
EPD-WA-66-032123	TO-15	BROMODICHLOROMETHANE	1.3	U	0.16	1.3	UG/M3	1.3	U

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-66-032123	TO-15	BROMOFORM	2.0 U		0.19	2.0	UG/M3	2.0 U	
EPD-WA-66-032123	TO-15	BROMOMETHANE	37 U		1.8	37	UG/M3	37 U	
EPD-WA-66-032123	TO-15	CARBON DISULFIDE	0.36 J		0.13	3.0	UG/M3	3.0 U	
EPD-WA-66-032123	TO-15	CHLOROBENZENE	0.88 U		0.10	0.88	UG/M3	0.88 U	
EPD-WA-66-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.87 U		0.23	0.87	UG/M3	0.87 U	
EPD-WA-66-032123	TO-15	CUMENE	0.94 U		0.087	0.94	UG/M3	0.94 U	
EPD-WA-66-032123	TO-15	CYCLOHEXANE	1.4 J		0.55	3.3	UG/M3	1.4 J	
EPD-WA-66-032123	TO-15	DIBROMOCHLOROMETHANE	1.6 U		0.24	1.6	UG/M3	1.6 U	
EPD-WA-66-032123	TO-15	ETHANOL	120		0.91	7.2	UG/M3	120	
EPD-WA-66-032123	TO-15	FREON 11	1.3		0.16	1.1	UG/M3	1.3	
EPD-WA-66-032123	TO-15	FREON 113	0.55 J		0.15	1.5	UG/M3	0.55 J	
EPD-WA-66-032123	TO-15	HEPTANE	0.80 J		0.54	3.9	UG/M3	0.80 J	
EPD-WA-66-032123	TO-15	HEXACHLOROBUTADIENE	10 U		0.67	10	UG/M3	10 U	
EPD-WA-66-032123	TO-15	HEXANE	8.7		0.3	3.4	UG/M3	8.7 J	
EPD-WA-66-032123	TO-15	METHYLENE CHLORIDE	1.1 J		0.41	1.3	UG/M3	1.3 U	
EPD-WA-66-032123	TO-15	PROPYLBENZENE	0.94 U		0.22	0.94	UG/M3	0.94 U	
EPD-WA-66-032123	TO-15	STYRENE	0.46 J		0.13	0.81	UG/M3	0.46 J	
EPD-WA-66-032123	TO-15	TETRAHYDROFURAN	1.6 J		0.48	2.8	UG/M3	1.6 J	
EPD-WA-66-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.87 U		0.18	0.87	UG/M3	0.87 U	
EPD-WA-66-032123	TO-15	2-ETHYL-1-HEXANOL	0 U				PPBV	0 U,NF	
EPD-WA-66-032123	TO-15	BUTANE	1.8 NJ				PPBV	1.8 NJ	
EPD-WA-66-032123	TO-15	BUTANE, 2-METHYL-	2.1 NJ				PPBV	2.1 NJ	
EPD-WA-66-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0 U				PPBV	0 U,NF	
EPD-WA-66-032123	TO-15	ISOBUTANE	1.9 NJ				PPBV	1.9 NJ	
EPD-WA-66-032123	TO-15	OCTANE, 2,5,6-TRIMETHYL-	1.9 NJ				PPBV	1.9 NJ	
EPD-WA-66-032123	TO-15	PENTANE	5.6 NJ				PPBV	5.6 NJ	
EPD-WA-66-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.21 U		0.027	0.21	UG/M3	0.21 U	
EPD-WA-66-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.26 U		0.11	0.26	UG/M3	0.26 U	
EPD-WA-66-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.21 U		0.072	0.21	UG/M3	0.21 U	
EPD-WA-66-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.15 U		0.022	0.15	UG/M3	0.15 U	
EPD-WA-66-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.076 U		0.029	0.076	UG/M3	0.076 U	
EPD-WA-66-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.29 U		0.10	0.29	UG/M3	0.29 U	
EPD-WA-66-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.093 J		0.039	0.15	UG/M3	0.093 J	



E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
EUROFINS AIR TOXICS REPORT NO. 2303491A

Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-66-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.23	U	0.081	0.23	UG/M3	0.23	U
EPD-WA-66-032123	TO-15 SIM	BENZENE	1.9		0.034	0.30	UG/M3	1.9	
EPD-WA-66-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.43		0.051	0.24	UG/M3	0.43	J
EPD-WA-66-032123	TO-15 SIM	CHLOROETHANE	0.25	U	0.028	0.25	UG/M3	0.25	U
EPD-WA-66-032123	TO-15 SIM	CHLOROFORM	0.099	J	0.027	0.19	UG/M3	0.099	J
EPD-WA-66-032123	TO-15 SIM	CHLOROMETHANE	1.1	J	0.40	2.0	UG/M3	1.1	J
EPD-WA-66-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.15	U	0.014	0.15	UG/M3	0.15	U
EPD-WA-66-032123	TO-15 SIM	ETHYL BENZENE	0.49		0.016	0.16	UG/M3	0.49	
EPD-WA-66-032123	TO-15 SIM	FREON 114	0.12	J	0.022	0.27	UG/M3	0.12	J
EPD-WA-66-032123	TO-15 SIM	FREON 12	2.4		0.035	0.47	UG/M3	2.4	
EPD-WA-66-032123	TO-15 SIM	M,P-XYLENE	1.6		0.01	0.33	UG/M3	1.6	
EPD-WA-66-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.69	U	0.019	0.69	UG/M3	0.69	U
EPD-WA-66-032123	TO-15 SIM	NAPHTHALENE	0.50	U	0.14	0.50	UG/M3	0.50	U
EPD-WA-66-032123	TO-15 SIM	O-XYLENE	0.58		0.014	0.16	UG/M3	0.58	
EPD-WA-66-032123	TO-15 SIM	TETRACHLOROETHENE	0.26	U	0.14	0.26	UG/M3	0.26	U
EPD-WA-66-032123	TO-15 SIM	TOLUENE	4.0		0.019	0.36	UG/M3	4.0	
EPD-WA-66-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.76	U	0.017	0.76	UG/M3	0.76	U
EPD-WA-66-032123	TO-15 SIM	TRICHLOROETHENE	0.038	J	0.028	0.20	UG/M3	0.038	J
EPD-WA-66-032123	TO-15 SIM	VINYL CHLORIDE	0.56		0.014	0.049	UG/M3	0.56	

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

<b>Site Name</b>	E Palestine Site - ER		<b>TO/TOLIN No.</b>	68HE0520F0032/0001EB201
<b>Document Tracking No.</b>	1731b		<b>Technical Reviewer (signature and date)</b>	<i>J. Ramon Vasser</i> 3/31/2023
<b>Data Reviewer (signature and date)</b>	<i>Amel Chasse</i> March 28, 2023	<i>Sweng</i> 3/29/23	<b>Laboratory</b>	Eurofins Air Toxics, LLC, Folsom, CA
<b>Laboratory Report No.</b>	2303491B		<b>Analyses</b>	
<b>Analyses</b>	Volatile organic compounds (VOCs) by EPA Method TO-15 in scan and selected ion monitoring (SIM) modes			
<b>Samples and Matrix</b>	One air sample			
<b>Collection Date(s)</b>	03/21/2023			
<b>Field Duplicate Pairs</b>	NA			
<b>Field QC Blanks</b>	NA			

**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:**

<b>Within Criteria</b>	<b>Exceedance/Notes</b>
Y	No LCS RPDs were provided in the Level II laboratory report. The lab provided RPDs separately. No qualifications were applied.

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

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
Y	<p>Starting and ending canister vacuum/pressures on the chain-of-custody (COC) form are all recorded as positive values and should not be. The field team leader was contacted and confirmed that they are actually negative values and that the field team inadvertently omitted the negative signs. Additionally, the canister receipt vacuum/pressure values in the laboratory report are also positive and should not be. The laboratory was contacted and confirmed that the all values are negative, even though the minus signs are missing, and that the laboratory uses the following convention for recording Summa canister vacuums and pressures: vacuums are recorded as positive values using the unit of inches of mercury ("Hg), and positive pressures are recorded using the unit pounds per square inch (psi).</p> <p>The ending field-measured canister pressure listed on the COC form for EPD-WA-04-032123 was 0"Hg, while canister pressure measured by the laboratory upon receipt was -1.6"Hg (slight vacuum pressure). These pressure discrepancies suggest that one or both of the pressure gauges used were inaccurate. Typically, the field gauges tend to be less accurate than lab gauges. If it is assumed the field gauge was less accurate than the laboratory gauge, then it is possible the sample was representative of the matrix conditions over the entire sampling period. However, if it is assumed the laboratory gauge was less accurate than the zero pressure reading of the field gauge suggests that the canister may have filled more quickly than intended and may have filled up before the end of the intended sampling period. Because it cannot be known when during the sampling period the canisters filled completely, the samples may not be representative of the matrix conditions over the entire sampling period, and the analytical results for the samples should be used with caution.</p>

**Method blanks:**

Within Criteria	Exceedance/Notes
N	<p>TO-15 SIM (2303491B-02B): Tetrachloroethene and trichloroethene were detected in the method blank at levels between the method detection limit (MDL) and reporting limit (RL).</p> <ul style="list-style-type: none"> <li>• The tetrachloroethene result in EPD-WA-04-32123 was qualified as not detected (flagged U) at the RL.</li> <li>• The trichloroethene result was nondetect and was not qualified.</li> </ul>

**Field blanks:**

Within Criteria	Exceedance/Notes
NA	

**DATA VALIDATION CHECKLIST – STAGE 2A  
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**Surrogates and labeled compounds:**

Within Criteria	Exceedance/Notes
Y	

**MS/MSDs:**

Within Criteria	Exceedance/Notes
NA	

**Laboratory duplicates:**

Within Criteria	Exceedance/Notes
NA	

**Field duplicates:**

Within Criteria	Exceedance/Notes
NA	

**LCSs/LCSDs:**

Within Criteria	Exceedance/Notes
N	<p>TO-15 scan (2303491B-04A): The relative percent difference (RPD) between LCS/LCSD were greater than QC limits for 1,2,4-trichlorobenzene and hexachlorobutadiene. Associated sample results were not detected, therefore no qualification was necessary.</p> <p>TO-15 SIM (2303491B-04B): The RPD between LCS/LCSD was greater than QC limits for naphthalene. The naphthalene result in sample EPD-WA-04-032123 was qualified as estimated (flagged J).</p>

**DATA VALIDATION CHECKLIST – STAGE 2A  
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**Sample dilutions:**

Within Criteria	Exceedance/Notes
Y	Canister dilution factor for EPD-WA-04-032123 was 1.19.

**Re-extraction and reanalysis:**

Within Criteria	Exceedance/Notes
NA	

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
Y	Detections between the method detection limit (MDL) and reporting limit (RL) were reported and qualified as estimated (flagged J) by the laboratory.

**Tentatively identified compounds:**

Within Criteria	Exceedance/Notes
Y	Tentatively identified compounds (TICs) were detected in the sample. The known TICs were qualified as tentatively identified (flagged NJ). 2-ethyl-1hexanol and butyl acrylate in the sample was reported as not detected and qualified as manually searched for, but not found in the sample (flagged U, NF).

**Other [None]:**

Within Criteria	Exceedance/Notes
NA	

**DATA VALIDATION CHECKLIST – STAGE 2A  
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**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.
NF	The tentatively identified compound was manually searched for but was not found in the sample.
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.

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-04-032123	TO-15	1,2,4-TRICHLOROBENZENE	4.4	U	1.1	4.4	UG/M3	4.4	U
EPD-WA-04-032123	TO-15	1,2,4-TRIMETHYLBENZENE	1.6		0.18	0.58	UG/M3	1.6	
EPD-WA-04-032123	TO-15	1,2-DICHLOROBENZENE	0.72	U	0.085	0.72	UG/M3	0.72	U
EPD-WA-04-032123	TO-15	1,2-DICHLOROPROPANE	0.55	U	0.091	0.55	UG/M3	0.55	U
EPD-WA-04-032123	TO-15	1,3,5-TRIMETHYLBENZENE	0.44	J	0.12	0.58	UG/M3	0.44	J
EPD-WA-04-032123	TO-15	1,3-BUTADIENE	0.18	J	0.026	0.26	UG/M3	0.18	J
EPD-WA-04-032123	TO-15	1,3-DICHLOROBENZENE	0.72	U	0.081	0.72	UG/M3	0.72	U
EPD-WA-04-032123	TO-15	1,4-DIOXANE	0.43	U	0.068	0.43	UG/M3	0.43	U
EPD-WA-04-032123	TO-15	2,2,4-TRIMETHYLPENTANE	1.2	J	0.45	2.8	UG/M3	1.2	J
EPD-WA-04-032123	TO-15	2-BUTANONE (METHYL ETHYL KETONE)	1.8	U	0.27	1.8	UG/M3	1.8	U
EPD-WA-04-032123	TO-15	2-HEXANONE	2.4	U	0.38	2.4	UG/M3	2.4	U
EPD-WA-04-032123	TO-15	2-PROPANOL	0.34	J	0.33	5.8	UG/M3	0.34	J
EPD-WA-04-032123	TO-15	3-CHLOROPROPENE	1.9	U	0.37	1.9	UG/M3	1.9	U
EPD-WA-04-032123	TO-15	4-ETHYLTOLUENE	1.2		0.11	0.58	UG/M3	1.2	
EPD-WA-04-032123	TO-15	4-METHYL-2-PENTANONE	0.49	U	0.18	0.49	UG/M3	0.49	U
EPD-WA-04-032123	TO-15	ACETONE	3.0	J	0.65	5.6	UG/M3	3.0	J
EPD-WA-04-032123	TO-15	ALPHA-CHLOROTOLUENE	0.62	U	0.11	0.62	UG/M3	0.62	U
EPD-WA-04-032123	TO-15	BROMODICHLOROMETHANE	0.8	U	0.12	0.80	UG/M3	0.80	U
EPD-WA-04-032123	TO-15	BROMOFORM	1.2	U	0.34	1.2	UG/M3	1.2	U
EPD-WA-04-032123	TO-15	BROMOMETHANE	23	U	0.66	23	UG/M3	23	U
EPD-WA-04-032123	TO-15	CARBON DISULFIDE	1.8	U	0.53	1.8	UG/M3	1.8	U
EPD-WA-04-032123	TO-15	CHLOROBENZENE	0.55	U	0.043	0.55	UG/M3	0.55	U
EPD-WA-04-032123	TO-15	CIS-1,3-DICHLOROPROPENE	0.54	U	0.10	0.54	UG/M3	0.54	U
EPD-WA-04-032123	TO-15	CUMENE	0.11	J	0.074	0.58	UG/M3	0.11	J
EPD-WA-04-032123	TO-15	CYCLOHEXANE	0.23	J	0.20	2.0	UG/M3	0.23	J
EPD-WA-04-032123	TO-15	DIBROMOCHLOROMETHANE	1.0	U	0.18	1.0	UG/M3	1.0	U
EPD-WA-04-032123	TO-15	ETHANOL	5.5		0.54	4.5	UG/M3	5.5	
EPD-WA-04-032123	TO-15	FREON 11	1.1		0.053	0.67	UG/M3	1.1	
EPD-WA-04-032123	TO-15	FREON 113	0.47	J	0.16	0.91	UG/M3	0.47	J
EPD-WA-04-032123	TO-15	HEPTANE	0.88	J	0.30	2.4	UG/M3	0.88	J
EPD-WA-04-032123	TO-15	HEXACHLOROBUTADIENE	6.3	U	0.63	6.3	UG/M3	6.3	U
EPD-WA-04-032123	TO-15	HEXANE	1.8	J	0.33	2.1	UG/M3	1.8	J
EPD-WA-04-032123	TO-15	METHYLENE CHLORIDE	0.48	J	0.47	0.83	UG/M3	0.48	J

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY  
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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-04-032123	TO-15	PROPYLBENZENE	0.22	J	0.13	0.58	UG/M3	0.22	J
EPD-WA-04-032123	TO-15	STYRENE	0.51	U	0.074	0.51	UG/M3	0.51	U
EPD-WA-04-032123	TO-15	TETRAHYDROFURAN	1.8	U	0.28	1.8	UG/M3	1.8	U
EPD-WA-04-032123	TO-15	TRANS-1,3-DICHLOROPROPENE	0.54	U	0.13	0.54	UG/M3	0.54	U
EPD-WA-04-032123	TO-15	2-ETHYL-1-HEXANOL	0	U			PPBV	0	U,NF
EPD-WA-04-032123	TO-15	BUTANE	2.3	NJ			PPBV	2.3	NJ
EPD-WA-04-032123	TO-15	BUTANE, 2-METHYL-	2.3	NJ			PPBV	2.3	NJ
EPD-WA-04-032123	TO-15	BUTYL ACRYLATE (2-PROPENOIC ACID ,BUTYL ESTER)	0	U			PPBV	0	U,NF
EPD-WA-04-032123	TO-15	ISOBUTANE	0.87	NJ			PPBV	0.87	NJ
EPD-WA-04-032123	TO-15	PENTANE	1.7	NJ			PPBV	1.7	NJ
EPD-WA-04-032123	TO-15	PENTANE, 2-METHYL-	1.0	NJ			PPBV	1.0	NJ
EPD-WA-04-032123	TO-15	PENTANE, 3-METHYL-	0.65	NJ			PPBV	0.65	NJ
EPD-WA-04-032123	TO-15 SIM	1,1,1-TRICHLOROETHANE	0.13	U	0.011	0.13	UG/M3	0.13	U
EPD-WA-04-032123	TO-15 SIM	1,1,2,2-TETRACHLOROETHANE	0.16	U	0.040	0.16	UG/M3	0.16	U
EPD-WA-04-032123	TO-15 SIM	1,1,2-TRICHLOROETHANE	0.13	U	0.015	0.13	UG/M3	0.13	U
EPD-WA-04-032123	TO-15 SIM	1,1-DICHLOROETHANE	0.096	U	0.0096	0.096	UG/M3	0.096	U
EPD-WA-04-032123	TO-15 SIM	1,1-DICHLOROETHENE	0.047	U	0.012	0.047	UG/M3	0.047	U
EPD-WA-04-032123	TO-15 SIM	1,2-DIBROMOETHANE (EDB)	0.18	U	0.025	0.18	UG/M3	0.18	U
EPD-WA-04-032123	TO-15 SIM	1,2-DICHLOROETHANE	0.073	J	0.011	0.096	UG/M3	0.073	J
EPD-WA-04-032123	TO-15 SIM	1,4-DICHLOROBENZENE	0.14	U	0.061	0.14	UG/M3	0.14	U
EPD-WA-04-032123	TO-15 SIM	BENZENE	1.9		0.019	0.19	UG/M3	1.9	
EPD-WA-04-032123	TO-15 SIM	CARBON TETRACHLORIDE	0.45		0.011	0.15	UG/M3	0.45	
EPD-WA-04-032123	TO-15 SIM	CHLOROETHANE	0.16	U	0.0084	0.16	UG/M3	0.16	U
EPD-WA-04-032123	TO-15 SIM	CHLOROFORM	0.067	J	0.012	0.12	UG/M3	0.067	J
EPD-WA-04-032123	TO-15 SIM	CHLOROMETHANE	0.73	J	0.15	1.2	UG/M3	0.73	J
EPD-WA-04-032123	TO-15 SIM	CIS-1,2-DICHLOROETHENE	0.094	U	0.012	0.094	UG/M3	0.094	U
EPD-WA-04-032123	TO-15 SIM	ETHYL BENZENE	0.69		0.015	0.1	UG/M3	0.69	
EPD-WA-04-032123	TO-15 SIM	FREON 114	0.10	J	0.018	0.17	UG/M3	0.10	J
EPD-WA-04-032123	TO-15 SIM	FREON 12	2.0		0.012	0.29	UG/M3	2.0	
EPD-WA-04-032123	TO-15 SIM	M,P-XYLENE	2.5		0.020	0.21	UG/M3	2.5	
EPD-WA-04-032123	TO-15 SIM	METHYL TERT-BUTYL ETHER	0.43	U	0.0080	0.43	UG/M3	0.43	U
EPD-WA-04-032123	TO-15 SIM	NAPHTHALENE	0.12	J	0.092	0.31	UG/M3	0.12	J
EPD-WA-04-032123	TO-15 SIM	O-XYLENE	0.92		0.018	0.1	UG/M3	0.92	



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Sample_ID	Method	Analyte	Lab_Result	Lab_Qual	MDL	RL	Units	VAL_Result	VAL_Qual
EPD-WA-04-032123	TO-15 SIM	TETRACHLOROETHENE	0.10	J	0.023	0.16	UG/M3	0.16	U
EPD-WA-04-032123	TO-15 SIM	TOLUENE	3.8		0.016	0.22	UG/M3	3.8	
EPD-WA-04-032123	TO-15 SIM	TRANS-1,2-DICHLOROETHENE	0.47	U	0.0071	0.47	UG/M3	0.47	U
EPD-WA-04-032123	TO-15 SIM	TRICHLOROETHENE	0.13	U	0.021	0.13	UG/M3	0.13	U
EPD-WA-04-032123	TO-15 SIM	VINYL CHLORIDE	0.31		0.0085	0.03	UG/M3	0.31	