



Summit Environmental Technologies, Inc.  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

May 10, 2023

Nelson McIlveen  
Sentry H2O  
329 S. Rockford Drive Suite 103  
Tempe, AZ 85281  
TEL: (480) 560-5260  
FAX:

RE: East Palestine Vinyl Chloride Test

Dear Nelson McIlveen:

Order No.: 23050358

Summit Environmental Technologies, Inc. received 1 sample(s) on 5/2/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Brian J. Fackelman

Project Manager

3310 Win St.  
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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## Case Narrative

WO#: 23050358  
Date: 5/10/2023

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**CLIENT:** Sentry H2O  
**Project:** East Palestine Vinyl Chloride Test

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### WorkOrder Narrative:

23050358: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

### WorkOrder Comments:

23050358: Ohio DW; data is for private use.

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Original



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**Workorder**  
**Sample Summary**  
WO#: **23050358**  
**10-May-23**

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**CLIENT:** Sentry H2O  
**Project:** East Palestine Vinyl Chloride Test

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Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23050358-001	42523 East Palestine Vinyl Chloride Test		5/2/2023 8:30:00 AM	5/2/2023 12:45:00 PM	Drinking Water



**SUMMIT**  
 ENVIRONMENTAL TECHNOLOGIES, INC.  
 Analytical Laboratories

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# DATES REPORT

WO#: **23050358**  
**10-May-23**

**Client:** Sentry H2O  
**Project:** East Palestine Vinyl Chloride Test

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23050358-001A	42523 East Palestine Vinyl Chloride Test	5/2/2023 8:30:00 AM	Drinking Water	VOC-GC/MS (524.2)			5/9/2023 6:54:00 PM

Original



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# Analytical Report

(consolidated)

WO#: 23050358

Date Reported: 5/10/2023

**CLIENT:** Sentry H2O **Collection Date:** 5/2/2023 8:30:00 AM  
**Project:** East Palestine Vinyl Chloride Test  
**Lab ID:** 23050358-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** 42523 East Palestine Vinyl Chloride Test\*

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC-GC/MS (524.2)</b>					<b>E524.2</b>	Analyst: <b>ALS</b>
Vinyl chloride	ND	0.500	U	µg/L	1	5/9/2023 6:54:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.3	70 - 130		%Rec	1	5/9/2023 6:54:00 PM
Surr: 4-Bromofluorobenzene	90.0	70 - 130		%Rec	1	5/9/2023 6:54:00 PM

\*Sample tested after Sentry Wellness System treatment

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
	W	Sample container temperature is out of limit as specified at testcode		

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# QC SUMMARY REPORT

WO#: 23050358  
 10-May-23

**Client:** Sentry H2O  
**Project:** East Palestine Vinyl Chloride Test

**BatchID:** R163402

Sample ID: <b>LCS*</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>163402</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R163402</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>5/9/2023</b>	SeqNo: <b>4345101</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	4.04	0.500	5.000	0	80.8	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.43		10.00		94.3	70	130				
Surr: 4-Bromofluorobenzene	9.51		10.00		95.1	70	130				

\*Sample tested without treatment

Sample ID: <b>MB*</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>163402</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R163402</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>5/9/2023</b>	SeqNo: <b>4345102</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.500									U
Surr: 1,2-Dichlorobenzene-d4	8.99		10.00		89.9	70	130				
Surr: 4-Bromofluorobenzene	9.41		10.00		94.1	70	130				

\*Laboratory blank control

Sample ID: <b>23050454-002CMS*</b>	SampType: <b>MS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>163402</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R163402</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>5/10/2023</b>	SeqNo: <b>4345116</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	5.28	0.500	5.000	0	106	70	130				
Surr: 1,2-Dichlorobenzene-d4	8.93		10.00		89.3	70	130				
Surr: 4-Bromofluorobenzene	9.14		10.00		91.4	70	130				

\*Sample tested without treatment

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analy
	J Analyte detected below quantitation limits	M Manual Integration used to determine area response	MC Value is below Minimum Compound
	ND Not Detected	OG1	P Second column confirmation exceeds
	PL Permit Limit	R RPD outside accepted recovery limits	RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 23050358  
 10-May-23

**Client:** Sentry H2O  
**Project:** East Palestine Vinyl Chloride Test

**BatchID:** R163402

Sample ID: <b>23050454-002CMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC_DW(524</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>163402</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R163402</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>5/10/2023</b>	SeqNo: <b>4345117</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	5.22	0.500	5.000	0	104	70	130	5.281	1.10	25	
Surr: 1,2-Dichlorobenzene-d4	9.54		10.00		95.4	70	130		0	25	
Surr: 4-Bromofluorobenzene	9.59		10.00		95.9	70	130		0	25	

\*Sample tested without treatment

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analy
	J Analyte detected below quantitation limits	M Manual Integration used to determine area response	MC Value is below Minimum Compound
	ND Not Detected	OG1	P Second column confirmation exceeds
	PL Permit Limit	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

### Qualifiers

<b>U</b>	The compound was analyzed for but was not detected.
<b>J</b>	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
<b>H</b>	The hold time for sample preparation and/or analysis was exceeded.
<b>D</b>	The result is reported from a dilution.
<b>E</b>	The result exceeded the linear range of the calibration or is estimated due to interference.
<b>MC</b>	The result is below the Minimum Compound Limit.
<b>*</b>	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
<b>m</b>	Manual integration was used to determine the area response.
<b>d</b>	Manual integration in which peak was deleted
<b>N</b>	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
<b>P</b>	The second column confirmation exceeded 25% difference.
<b>C</b>	The result has been confirmed by GC/MS.
<b>X</b>	The result was not confirmed when GC/MS Analysis was performed.
<b>B/MB+</b>	The analyte was detected in the associated blank.
<b>G</b>	The ICB or CCB contained reportable amounts of analyte.
<b>QC-/+</b>	The CCV recovery failed low (-) or high (+).
<b>R/QDR</b>	The RPD was outside of accepted recovery limits.
<b>QL-/+</b>	The LCS or LCSD recovery failed low (-) or high (+).
<b>QLR</b>	The LCS/LCSD RPD was outside of accepted recovery limits.
<b>QM-/+</b>	The MS or MSD recovery failed low (-) or high (+).
<b>QMR</b>	The MS/MSD RPD was outside of accepted recovery limits.
<b>QV-/+</b>	The ICV recovery failed low (-) or high (+).
<b>S</b>	The spike result was outside of accepted recovery limits.
<b>Z</b>	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

### Acronyms

<b>ND</b>	Not Detected	<b>RL</b>	Reporting Limit
<b>QC</b>	Quality Control	<b>MDL</b>	Method Detection Limit
<b>MB</b>	Method Blank	<b>LOD</b>	Level of Detection
<b>LCS</b>	Laboratory Control Sample	<b>LOQ</b>	Level of Quantitation
<b>LCSD</b>	Laboratory Control Sample Duplicate	<b>PQL</b>	Practical Quantitation Limit
<b>QCS</b>	Quality Control Sample	<b>CRQL</b>	Contract Required Quantitation Limit
<b>DUP</b>	Duplicate	<b>PL</b>	Permit Limit
<b>MS</b>	Matrix Spike	<b>RegLvl</b>	Regulatory Limit
<b>MSD</b>	Matrix Spike Duplicate	<b>MCL</b>	Maximum Contamination Limit
<b>RPD</b>	Relative Percent Different	<b>MinCL</b>	Minimum Compound Limit
<b>ICV</b>	Initial Calibration Verification	<b>RA</b>	Reanalysis
<b>ICB</b>	Initial Calibration Blank	<b>RE</b>	Reextraction
<b>CCV</b>	Continuing Calibration Verification	<b>TIC</b>	Tentatively Identified Compound
<b>CCB</b>	Continuing Calibration Blank	<b>RT</b>	Retention Time
<b>RLC</b>	Reporting Limit Check	<b>CF</b>	Calibration Factor
<b>DF</b>	Dilution Factor	<b>RF</b>	Response Factor

**This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.**





Analysis Request / Chain of Custody

23050358

Client Name: **State IGO**  
 Client Address: **329 S Rockford Dr Ste 103, Tampa AZ 85281**  
 Client Phone: **480 560-5404**  
 Contact Person: **Richard McBeath**  
 Email: **richm@state.igo.gov**

Project Name: **East Palestine Vinyl Chloride Test**  
 Project Address: **140 N Walnut St, East Palestine, OH 44413**  
 Project Phone: **419-392-1111**  
 Project Email: **info@eastpalestine.com**

Sample ID: **42523**  
 Sample Description: **East Palestine Vinyl Chloride Test**  
 Date Collected: **5/2**  
 Time Collected: **8:00 AM**

Requested By: **George B. [Signature]** Date: **5-2-23** Time: **8:52**

Received By: **[Signature]** Date: **5/1/23** Time: **8:52**

Matrix: **Water**  
 Analyte: **Vinyl Chloride**

Method: **5.3**  
 Method Description: **5.3 TO-17**

Temperature: **5.3 °C**

Notes: **headspace in vials**



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# Sample Log-In Check List

Client Name: **SEN-AZ-85281**

Work Order Number: **23050358**

RcptNo: **1**

Logged by:	<b>Christina N. Gemma</b>	<b>5/2/2023 12:45:00 PM</b>	
Completed By:	<b>Brian J. Fackelman</b>	<b>5/5/2023 3:44:33 PM</b>	
Reviewed By:	<b>Brian J. Fackelman</b>	<b>5/5/2023 3:44:35 PM</b>	

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Summit

**Log In**

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present   
 No. Seal Date: Signed By:  
 5. Was an attempt made to cool the samples? Yes  No  NA   
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 7. Sample(s) in proper container(s)? Yes  No   
 8. Sufficient sample volume for indicated test(s)? Yes  No   
 9. Are samples (except VOA and ONG) properly preserved? Yes  No   
 10. Was preservative added to bottles? Yes  No  NA   
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials   
 12. Were any sample containers received broken? Yes  No   
 13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 14. Are matrices correctly identified on Chain of Custody? Yes  No   
 15. Is it clear what analyses were requested? Yes  No   
 16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:  
 Headspace in vials

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good				