Vinyl Chloride Water Report Summary

This is a summary of the Vinyl Chloride Water Report showing the effectiveness of the Sentry Wellness System against vinyl chloride.

You can view the full report on pages 2-11.

Summit Environmental Technologies, Inc. tested three samples of water from East Palestine, Ohio in May 2023. Sample 1 is a lab-controlled sample spiked with vinyl chloride not treated with the Sentry Wellness System. Samples 2 and 3 were treated with the Sentry Wellness System and then spiked with vinyl chloride to show the lab's ability to recover vinyl chloride. Sample 4 was non-spiked water treated with the Sentry Wellness System.

This testing shows that no amounts of vinyl chloride were detected in the non-spiked East Palestine water sample using the Sentry Wellness System.

WATER SAMPLE TESTED FOR VINYL CHLORIDE	AMOUNT OF VINYL CHLORIDE FOUND IN SAMPLE	MAXIMUM ACCEPTABLE CONTAMINANT LEVEL	PERCENTAGE OF ACCEPTABLE CONTAMINANT LEVEL REACHED
Sample 1 - Untreated, Spiked Lab Control	4.04 μg/L	5.0 μg/L	80.8%
Sample 2 - Treated then Spiked	5.28 μg/L	5.0 μg/L	106%
Sample 3 - Treated then Spiked	5.22 μg/L	5.0 μg/L	104%
Sample 4 - Treated, NOT Spiked	ND (Not Detected)	5.0 μg/L	0%

Still have questions about this report? We're happy to help!

Please send us an email at CleanWater@SentryH2O.com or call us at 1-833-377-3817 Monday-Friday 8am-4pm AZ Time.





May 10, 2023

Nelson McIlveen Sentry H2O 329 S. Rockford Drive Suite 103

Tempe, AZ 85281 TEL: (480) 560-5260

RE:

FAX:

East Palestine Vinyl Chloride Test

Order No.: 23050358 Dear Nelson McIlveen:

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



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223

TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com **Case Narrative**

WO#: **23050358**Date: **5/10/2023**

CLIENT: Sentry H2O

Project: East Palestine Vinyl Chloride Test

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.



Workorder Sample Summary

WO#: **23050358**

10-May-23

CLIENT: Sentry H2O

Project: East Palestine Vinyl Chloride Test

Lab SampleID Client Sample ID Tag No Date Collected Date Received Matrix



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



Summit Environmental Technologies, Inc.
3310 Win St.

Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

Website: http://www.settek.com

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 Q	ual Units	DF	Date Analyzed
VOC-GC/MS (524.2)			E524	.2	Analyst: ALS
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

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL

Original



QC SUMMARY REPORT

WO#: 23050358

10-May-23

Client:	Sentry H20	_
Chent:	Sentry H20	٠

Project:	East Palesti	ne Vinyl Ch	loride Test]	BatchID: I	R163402		
Sample ID: LCS	S*	SampType:	LCS	TestCo	de: VOC_DW	(524 Units: μg/L		Prep Da	te:		RunNo: 163	3402	
Client ID: LCS	SW	Batch ID:	R163402	Test	No: E524.2			Analysis Da	te: 5/9/20	23	SeqNo: 43 4	1 5101	
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-Dich	nlorobenzene-d4		9.43		10.00		94.3	70	130				
Surr: 4-Bromo	ofluorobenzene		9.51		10.00		95.1	70	130				
*Sample tested \	without treatment												
Sample ID: MB	*	SampType:	MBLK	TestCo	de: VOC_DW	(524 Units: μg/L		Prep Da	te:		RunNo: 163	3402	
Client ID: PBV	N	Batch ID:	R163402	Test	No: E524.2			Analysis Da	te: 5/9/20	23	SeqNo: 434	1 5102	
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-Dich	nlorobenzene-d4		8.99		10.00		89.9	70	130				
Surr: 4-Bromo	ofluorobenzene		9.41		10.00		94.1	70	130				
*Laboratory blan	nk control												
Sample ID: 230	50454-002CMS*	SampType:	MS	TestCo	de: VOC_DW	(524 Units: μg/L		Prep Da	te:		RunNo: 163	3402	
Client ID: Bate	chQC	Batch ID:	R163402	Test	No: E524.2			Analysis Da	te: 5/10/2	023	SeqNo: 434	1 5116	
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-Dich	nlorobenzene-d4		8.93		10.00		89.3	70	130				
Surr: 4-Bromo	ofluorobenzene		9.14		10.00		91.4	70	130				
*Sample tested v	without treatment												
Qualifiers:	B Analyte detec	ted in the assoc	iated Method E	Blank	E Value	above quantitation ra	inge		Н	Holding times for	preparation or a	naly	
	•	ted below quan	titation limits		M Manu	al Integration used to	determine ar	rea response		Value is below M	inimum Compot	ınd	Origin
1	ND Not Detected				OG1					Second column co		eds	Origin
]	PL Permit Limit				R RPD o	outside accepted reco	very limits		RL	Reporting Detecti	on Limit		



QC SUMMARY REPORT

WO#:

23050358

10-May-23

Client: Sentry H2O

Project: East Palestine Vinyl Chloride Test BatchID: R163402

Sample ID: 23050454-002CMSD SampType: MSD		TestCod	TestCode: VOC_DW(524 Units: µg/L			Prep Da	te:		RunNo: 163	3402	
Client ID: BatchQC Batch ID: R163402		TestNo: E524.2		Analysis Date: 5/10/2023				SeqNo: 4345117			
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

Qualifiers:	В	Analyte detected in the associated Method Blank	E	Value above quantitation range	Н	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	Oni ni n a1
	ND	Not Detected	OG1		P	Second column confirmation exceeds	Original
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	

Summit Environmental Technologies, In

3310 Win S

Cuyahoga Falls, Ohio 4422 TEL: (330) 253-8211 FAX: (330) 253-448

Website: http://www.settek.co

Qualifiers and Acronyms

WO#: 23050358 Date: 5/10/2023

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

Qualifiers

II	The compound w	as analyzed for	hut was not	detected
U	The compound w	as analyzed for	out was not	uciccicu.

J The reported value is greater than the Method Detection Limit but less than the Reporting Limit.

H The hold time for sample preparation and/or analysis was exceeded.

D The result is reported from a dilution.

E The result exceeded the linear range of the calibration or is estimated due to interference.

MC The result is below the Minimum Compound Limit.

* The result exceeds the Regulatory Limit or Maximum Contamination Limit.

m Manual integration was used to determine the area response.

d Manual integration in which peak was deleted

N The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.

P The second column confirmation exceeded 25% difference.

C The result has been confirmed by GC/MS.

X The result was not confirmed when GC/MS Analysis was performed.

B/MB+ The analyte was detected in the associated blank.

G The ICB or CCB contained reportable amounts of analyte.

QC-/+ The CCV recovery failed low (-) or high (+).

R/QDR The RPD was outside of accepted recovery limits.

QL-/+ The LCS or LCSD recovery failed low (-) or high (+).

QLR The LCS/LCSD RPD was outside of accepted recovery limits.

QM-/+ The MS or MSD recovery failed low (-) or high (+).

QMR The MS/MSD RPD was outside of accepted recovery limits.

QV-/+ The ICV recovery failed low (-) or high (+).

S The spike result was outside of accepted recovery limits.

Z Deviation; A deviation from the method was performed; Please refer to the Case Narrative for

additional information

Acronyms

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

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Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223

TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>

Sample Log-In Check List

Clier	nt Name:	SEN-AZ-85281	Work Order Number:	23050358		RcptNo: 1
Logg	ged by:	Christina N. Gemma	5/2/2023 12:45:00 PM		C. Ceu	ma
Com	pleted By:	Brian J. Fackelman	5/5/2023 3:44:33 PM		Elm	ma
Revi	ewed By:	Brian J. Fackelman	5/5/2023 3:44:35 PM		Ben	_
Cha	in of Cus	stody				
1.	Is Chain of	Custody complete?		Yes 🗹	No 🗌	Not Present
2.	How was th	ne sample delivered?		<u>Summit</u>		
Log	<u>In</u>					
3.	Coolers are	e present?		Yes	No 🗸	NA 🗆
4.	Shipping co	ontainer/cooler in good con	dition?	Yes 🗹	No 🗌	
	Custody se	als intact on shipping conta	ainer/cooler?	Yes	No \square	Not Present 🗹
	No.	Seal Da	ite:	Signed By:		
5.	Was an att	empt made to cool the sam	ples?	Yes 🗸	No 🗌	NA \square
6.	Were all sa	amples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square
7.	Sample(s)	in proper container(s)?		Yes 🗹	No 🗌	
8.	Sufficient s	ample volume for indicated	I test(s)?	Yes 🗹	No 🗌	
9.	Are sample	es (except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌	
10.	Was prese	rvative added to bottles?		Yes \square	No 🗸	NA 🗆
11.	Is the head	Ispace in the VOA vials less	s than 1/4 inch or 6 mm?	Yes	No 🗸	No VOA Vials
12.	Were any s	sample containers received	broken?	Yes	No 🗸	
13.	Does pape	rwork match bottle labels? epancies on chain of custo		Yes 🗸	No 🗌	
	`	es correctly identified on Ch	• ,	Yes 🗸	No 🗌	
		hat analyses were request		Yes 🗸	No 🗌	
16.	Were all ho	olding times able to be metaged by customer for authorization	?	Yes 🗸	No 🗆	
		dling (if applicable)	1.)			
		notified of all discrepancies	s with this order?	Yes	No 🗌	NA 🗸
	Perso	n Notified:	Date:			
	By WI		Via:	eMail P	hone Fax	☐ In Person
	Regar		via.	Giviali F	попе 🔲 гах	
	_	Instructions:				
18.	Additional r					
	Heads	space in vials				

Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good				