

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Yazmeen Gomez
Chemtech Consulting Group Inc.
284 Sheffield Street
Mountainside, New Jersey 07092

Generated 10/1/2025 8:17:36 AM

JOB DESCRIPTION

1,4 Dioxane

JOB NUMBER

810-165116-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
10/1/2025 8:17:36 AM

Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
(574)233-4777

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17



Definitions/Glossary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Chemtech Consulting Group Inc.
Project: 1,4 Dioxane

Job ID: 810-165116-1

Job ID: 810-165116-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-165116-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 9/24/2025 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Client Sample ID: VPB184-HYD-20250919

Lab Sample ID: 810-165116-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.14		0.070	0.062	ug/L	1		522	Total/NA

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Client Sample ID: VPB184-HYD-20250919

Lab Sample ID: 810-165116-1

Date Collected: 09/19/25 13:15

Matrix: Drinking Water

Date Received: 09/24/25 09:30

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.14		0.070	0.062	ug/L		09/26/25 09:14	09/26/25 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130				09/26/25 09:14	09/26/25 22:36	1

Surrogate Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)
Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		DXE						
Lab Sample ID	Client Sample ID	(70-130)						
810-165116-1	VPB184-HYD-20250919	90						
LLCS 810-162040/2-A	Lab Control Sample	90						
MBL 810-162040/1-A	Method Blank	100						
Surrogate Legend								
DXE = 1,4-Dioxane-d8 (Surr)								

QC Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MBL 810-162040/1-A
Matrix: Drinking Water
Analysis Batch: 162117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162040

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	0.062	ug/L		09/26/25 09:14	09/26/25 21:31	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		70 - 130				09/26/25 09:14	09/26/25 21:31	1

Lab Sample ID: LLCS 810-162040/2-A
Matrix: Drinking Water
Analysis Batch: 162117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162040

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.0700	0.0960		ug/L		137	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	90		70 - 130				

QC Association Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

GC/MS Semi VOA

Prep Batch: 162040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165116-1	VPB184-HYD-20250919	Total/NA	Drinking Water	522	
MBL 810-162040/1-A	Method Blank	Total/NA	Drinking Water	522	
LLCS 810-162040/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 162117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165116-1	VPB184-HYD-20250919	Total/NA	Drinking Water	522	162040
MBL 810-162040/1-A	Method Blank	Total/NA	Drinking Water	522	162040
LLCS 810-162040/2-A	Lab Control Sample	Total/NA	Drinking Water	522	162040

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Client Sample ID: VPB184-HYD-20250919
Date Collected: 09/19/25 13:15
Date Received: 09/24/25 09:30

Lab Sample ID: 810-165116-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			162040	BAB	EA SB	09/26/25 09:14
Total/NA	Analysis	522		1	162117	KO	EA SB	09/26/25 22:36

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Laboratory: Eurofins Eaton Analytical South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-26
Alabama	State	40700	06-30-26
Alaska	State	IN00035	06-30-26
Arizona	State	AZ0432	07-26-26
Arkansas (DW)	State	EPA IN00035	06-30-26
California	State	2920	06-30-26
Colorado	State	IN00035	02-28-26
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-26
Florida	NELAP	E87775	06-30-26
Georgia (DW)	State	929	06-30-26
Guam	State	24-012R	07-15-26
Hawaii	State	IN035	06-30-26
Idaho (DW)	State	IN00035	12-31-25
IL Dept. of Public Health (Micro)	State	17767	06-30-26
Illinois	NELAP	200001	09-30-26
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	098	11-01-25
Kansas	NELAP	E-10233	10-31-25
Kentucky (DW)	State	KY90056	12-31-25
Louisiana (DW)	State	LA014	12-31-25
Maine	State	IN00035	05-01-27
Maryland	State	209	06-30-26
Massachusetts	State	M-IN035	06-30-26
MI - RadChem Recognition	State	9926	06-30-26
Michigan	State	9926	12-31-25
Minnesota	NELAP	018-999-338	12-31-25
Mississippi	State	IN00035	06-30-26
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-26
Nebraska	State	NE-OS-05-04	06-30-26
Nevada	State	NV-C24-00276	07-31-26
New Hampshire	NELAP	2124	11-05-25
New Jersey	NELAP	IN598	06-30-26
New Mexico	State	IN00035	06-30-26
New York	NELAP	11398	04-01-26
North Carolina (DW)	State	18700	07-31-26
North Dakota	State	R-035	06-30-26
Northern Mariana Islands (DW)	State	IN00035	06-30-26
Ohio	State	87775	06-30-26
Oklahoma	NELAP	D9508	12-31-25
Oregon	NELAP	4156	09-16-26
Pennsylvania	NELAP	68-00466	04-30-26
Puerto Rico	State	IN00035	04-01-26
Rhode Island	State	LAO00343	12-31-25
South Carolina	State	95005001	06-30-26
South Dakota (DW)	State	IN00035	12-31-25
Tennessee	State	TN02973	06-30-26
Texas	NELAP	T104704187	12-31-25

Eurofins Eaton Analytical South Bend

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	TCEQ Water Supply	TX207	06-30-26
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-26
Vermont	State	VT-8775	12-28-25
Virginia	NELAP	460275	03-14-26
Washington	State	C837	01-01-26
West Virginia (DW)	State	9927 C	01-31-26
Wisconsin	State	999766900	08-31-26
Wisconsin (Micro)	State	10121	12-31-25
Wyoming	State	8TMS-L	06-30-26

Method Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	EA SB
522	Solid-Phase Extraction (SPE)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-165116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-165116-1	VPB184-HYD-20250919	Drinking Water	09/19/25 13:15	09/24/25 09:30	New Jersey

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



810-165116 COC

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY : Eurofins Eaton Analytical South Bend		ORDER ID :	Q3166	BILL TO:	CHEMTECH PO# : Q3166
ADDRESS : 110 South Bend		PROJECT ID: NWIRP Bethpage 112G08005-WE13		ADDRESS : 284, Sheffield Street	
CITY: South Bend State : IN ZIP : 46617		PROJECT MANAGER YAZMEEN		CITY: Mountainside	State : NJ ZIP : 07092
E-mail : Nathan.Trowbridge@et.eurofinsus.		E-mail : yazmeen.gomez@alliancetg.com		ATTENTION : YAZMEE	
PHONE : 574-233-4777		PHONE : (908) 789 8900		PHONE : (908) 789 8900 FAX : (908) 789 8922	

EDD : ADAPT Report : Level 4

Comment: DoD--wet Chem Group1 = 1,4-Dioxane by 522--

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
						DATE	TIME		
01	VPB184-HYD-20250919	Water	Wet Chem Group1	um thiosulfate(Na2S2O3)	522(sub)	09/19/2025	13:15:00	2	10

Initial Temp: 72.8
Corrected Temp: 72.8
IR Gun # 22

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY

CONDITIONS OF RECEIPT			
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT:
1. <i>[Signature]</i>	9/23/25	1.	☐ Compliant ☐ Non Compliant Cooler Temp _____ Ice or Cooler? _____
2.		2.	
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	
3.	09-24-2024	3. <i>[Signature]</i>	Page 1 of 1 Shipment Complete: ☐ OVERNIGHT ☐ YES ☐ NO

Stecherle Wf. 25.10.06

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-165116-1

Login Number: 165116

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moore, Gary

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	