

# DATA PACKAGE

VOLATILE ORGANICS

# **PROJECT NAME : WASTE WATER 2024**

# GARDEN STATE LABORATORIES, INC.

410 Hillside Avenue

Hillside, NJ - 07205

Phone No: 800-273-8901

ORDER ID: P4844

**ATTENTION : Sharon Ercoliani** 



Laboratory Certification ID # 20012







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# **Cover Page**

- Order ID : P4844
- Project ID : Waste Water 2024
  - **Client :** Garden State Laboratories, Inc.

#### Lab Sample Number

P4844-01 P4844-02

#### **Client Sample Number**

241113075-01-VOA 241113050-06-TRIP-BLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

NYDOH CERTIFICATION NO - 11376



NJDEP CERTIFICATION NO - 20012



# CASE NARRATIVE

Garden State Laboratories, Inc. Project Name: Waste Water 2024 Project # N/A Chemtech Project # P4844 Test Name: VOCMS Group1

#### A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/14/2024.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1 and VOCMS Group2. This data package contains results for VOCMS Group1.

#### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group1 was based on method 624.1.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for 241113075-01-VOA [Toluene-d8 - 89%], There was no more vials for re-analysis, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

#### **E. Additional Comments:**

The pH value of the samples was 6.0 as samples received unpreserved.

As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead. Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% for the Initial



Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 35% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

N. N. Panlya

Signature\_

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:48 pm, Nov 25, 2024

2.1



# CASE NARRATIVE

Garden State Laboratories, Inc. Project Name: Waste Water 2024 Project # N/A Chemtech Project # P4844 Test Name: VOCMS Group2

#### A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/14/2024.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1 and VOCMS Group2. This data package contains results for VOCMS Group2.

#### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group2 was based on method 8260D.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike for {VN1114WBS02} with File ID: VN084846.D met requirements for all samples except for o-Xylene[113%]. But associated samples have not positive hit for this compound therefore noc corrective action was taken.

The Blank Spike Duplicate for {VN1114WBSD02} with File ID: VN084847.D met requirements for all samples except for Dibromochloromethane[111%], o-Xylene[111%] . But associated samples hgave not positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82N103024W.M) for Methyl Acetate, Acetone, Chloroethane, Chloromethane these compounds are passing on Linear Regression while, 1,4-Dichlorobenzene this compound is passing on Quadratic Regression.

The Continuous Calibration File ID VN084935.D met the requirements except for 1,2,4-Trichlorobenzene and Carbon Disulfide. But associated samples have not positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.



2.2

#### **E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The pH value of the samples was 6.0 as samples received unpreserved. Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

N. N. Panlya Signature\_

**APPROVED** By Nimisha Pandya, QA/QC Supervisor at 12:48 pm, Nov 25, 2024



# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	<ul> <li>Indicates an estimated value. This flag is used:</li> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ul>
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Ε	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
Ν	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
Α	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.
Q	Indicates the LCS did not meet the control limits requirements



#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: P4844

Completed

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u>✓</u>
Is the chain of custody signed and complete	
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u>✓</u>
Collect information for each project id from server. Were all requirements followed	<u>✓</u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u>✓</u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u>✓</u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u>✓</u>
Do requested analyses on Chain of Custody agree with the log-in page	<u>✓</u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	$\frac{\checkmark}{\checkmark}$
Were the samples received within hold time	<u>✓</u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u>✓</u>
Was client requirement followed?	<u>✓</u>
Does the case narrative summarize all QC failure?	<u>✓</u>
All runlogs and manual integration are reviewed for requirements	
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI



Hit Summary Sheet 624.1							A	
SDG No.:	P4844							В
Client:	Garden State La	boratories, Inc.						С
_								D
Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	
Client ID:								_
				0				

Total Voc :

**Total Concentration:** 





A B C D



С

Report	of	Ana	lysis
	-		

Client:	Garden State Laboratories, Inc.	Date Collected:	11/13/24
Project:	Waste Water 2024	Date Received:	11/14/24
Client Sample ID:	241113075-01-VOA	SDG No.:	P4844
Lab Sample ID:	P4844-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN084876.D	1			11/15/24 18:00	VN111524	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.8		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	26.7	*	91 - 112	89%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.5		63 - 112	92%	SPK: 30
INTERNAL STAN	DARDS					
74-97-5	Bromochloromethane	24400	7.812			
540-36-3	1,4-Difluorobenzene	131000	9.094			
3114-55-4	Chlorobenzene-d5	127000	11.865			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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С

Report	of Ang	lvcie
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Client:	Garden State Laboratories, Inc.	Date Collected:	11/13/24
Project:	Waste Water 2024	Date Received:	11/14/24
Client Sample ID:	241113050-06-TRIP-BLANK	SDG No.:	P4844
Lab Sample ID:	P4844-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch: VN084871.D	Dilution: 1	Prep Date		Date Analyzed 11/15/24 16:00	Prep Batch ID VN111524	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.6		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.5		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.3		63 - 112	81%	SPK: 30
INTERNAL STAN	DARDS					
74-97-5	Bromochloromethane	28900	7.806			
540-36-3	1,4-Difluorobenzene	146000	9.1			
3114-55-4	Chlorobenzene-d5	126000	11.865			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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A B C

D

# LAB CHRONICLE

OrderID: Client: Contact:	P4844 Garden State Laboratories, Inc. Sharon Ercoliani		Project: Waste Water 2024		11/14/2024 10:28:00 AM Waste Water 2024 VOA Ref. #3 Water			
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4844-01	241113075-01-VOA	Water	VOCMS Group1	624.1	11/13/24		11/15/24	11/14/24
P4844-02	241113050-06-TRIP- BLANK	Water			11/13/24			11/14/24
			VOCMS Group1	624.1			11/14/24	



#### Hit Summary Sheet 8260-Low

**SDG No.:** P4844

Client:	Garden State Laboratories, Inc.	
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Sample ID	Client ID	Matrix	Parameter	Co	oncentration	С	MDL	l	RDL	Units
Client ID:	241113075-01-VO									
P4844-01	241113075-01-VO	A Water	Acetone		17.0		1.40		5.00	ug/L
P4844-01	241113075-01-VO	A Water	Methyl tert-butyl Ether		2.10		0.16		1.00	ug/L
P4844-01	241113075-01-VO	A Water	Benzene		3.40		0.16		1.00	ug/L
P4844-01	241113075-01-VO	A Water	Toluene		9.00		0.18		1.00	ug/L
P4844-01	241113075-01-VO	A Water	Chlorobenzene		1.00		0.13		1.00	ug/L
P4844-01	241113075-01-VO	A Water	Ethyl Benzene		8.40		0.16		1.00	ug/L
P4844-01	241113075-01-VO	A Water	m/p-Xylenes		9.20		0.31		2.00	ug/L
P4844-01	241113075-01-VO	A Water	o-Xylene		5.50		0.14		1.00	ug/L
P4844-01	241113075-01-VO	A Water	Isopropylbenzene		0.77	J	0.13		1.00	ug/L
			Total Voc :		56.4					
P4844-01	241113075-01-VO	A Water	(+)-2-Bornanone	*	120	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	Cyclohexanemethanol, .alpha.,	,. *	14.3	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	3-Pentanone, 2,4-dimethyl-	*	17.6	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	Silanol, trimethyl-	*	520	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	L-Fenchone	*	69.1	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	L-Menthone	*	17.0	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	Bicyclo[3.1.1]heptan-2-one, 3,	(*	18.8	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	7-Octen-2-ol, 2,6-dimethyl-	*	16.0	J	0		0	ug/L
P4844-01	241113075-01-VO	A Water	Tetrahydrofuran	*	1100	J	1.20		5.00	ug/L
P4844-01	241113075-01-VO	A Water	Tert butyl alcohol	*	10300	J	5.60		25.0	ug/L
P4844-01	241113075-01-VO	A Water	Diethyl Ether	*	3.50	J	0.20		1.00	ug/L
P4844-01	241113075-01-VO	A Water	n-propylbenzene	*	0.43	J	0.14		1.00	ug/L
P4844-01	241113075-01-VO	A Water	1,3,5-Trimethylbenzene	*	0.75	J	0.18		1.00	ug/L
P4844-01	241113075-01-VO	A Water	1,2,4-Trimethylbenzene	*	3.00	J	0.18		1.00	ug/L
P4844-01	241113075-01-VO	A Water	p-Isopropyltoluene	*	7.30	J	0.15		1.00	ug/L
P4844-01	241113075-01-VO	A Water	Naphthalene	*	18.1	J	0.59		1.00	ug/L
			Total Tics :		12200					
			<b>Total Concentration:</b>		12300					



В





A B C D



	С

Re	port	of A	nalysis
		· · · ·	

Client:	Client: Garden State Laboratories, Inc.		11/13/24
Project:	Waste Water 2024	Date Received:	11/14/24
Client Sample ID:	241113075-01-VOA	SDG No.:	P4844
Lab Sample ID:	P4844-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN084956.D	1			11/19/24 18:52	VN111924	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	17.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.10		0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	3.40		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	Ū	0.75	5.00	ug/L
108-88-3	Toluene	9.00	-	0.18	1.00	ug/L



# **Report of Analysis**

Client:	Garden State Laboratories, Inc.	Date Collected:	11/13/24
Project:	Waste Water 2024	Date Received:	11/14/24
Client Sample ID:	241113075-01-VOA	SDG No.:	P4844
Lab Sample ID:	P4844-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID	
VN084956.D	1		11/19/24 18:52	VN111924	J

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	1.00		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	8.40		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	9.20		0.31	2.00	ug/L
95-47-6	o-Xylene	5.50		0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.77	J	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	UQ	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.6		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		77 - 121	102%	SPK: 50
INTERNAL STA						
363-72-4	Pentafluorobenzene	178000	8.218			
540-36-3	1,4-Difluorobenzene	309000	9.1			
3114-55-4	Chlorobenzene-d5	282000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.794			
TENTATIVE ID	ENTIFIED COMPOUNDS					

6

B C D



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С

# **Report of Analysis**

Client:	Garden State Laboratories, Inc.	Date Collected:	11/13/24
Project:	Waste Water 2024	Date Received:	11/14/24
Client Sample ID:	241113075-01-VOA	SDG No.:	P4844
Lab Sample ID:	P4844-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID	
VN084956.D	1		11/19/24 18:52	VN111924	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units	
60-29-7	Diethyl Ether	3.50	J		3.95	ug/L	
75-65-0	Tert butyl alcohol	10300	J		5.55	ug/L	
001066-40-6	Silanol, trimethyl-	520	J		7.45	ug/L	
109-99-9	Tetrahydrofuran	1100	J		7.84	ug/L	
000565-80-0	3-Pentanone, 2,4-dimethyl-	17.6	J		11.2	ug/L	
103-65-1	n-propylbenzene	0.43	J		13.0	ug/L	
108-67-8	1,3,5-Trimethylbenzene	0.75	J		13.2	ug/L	
95-63-6	1,2,4-Trimethylbenzene	3.00	J		13.5	ug/L	
99-87-6	p-Isopropyltoluene	7.30	J		13.7	ug/L	
018479-58-8	7-Octen-2-ol, 2,6-dimethyl-	16.0	J		14.2	ug/L	
007787-20-4	L-Fenchone	69.1	J		14.7	ug/L	
000498-81-7	Cyclohexanemethanol, .alpha.,.alp	pha.,4-14.3	J		15.1	ug/L	
014073-97-3	L-Menthone	17.0	J		15.3	ug/L	
000464-49-3	(+)-2-Bornanone	120	J		15.3	ug/L	
91-20-3	Naphthalene	18.1	J		15.6	ug/L	
016022-08-5	Bicyclo[3.1.1]heptan-2-one, 3,6,6	-trimet 8.8	J		16.0	ug/L	

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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# **Report of Analysis**

Client:	Garden State Laboratories, Inc.	Date Collected:	11/13/24	
Project:	Waste Water 2024	Date Received:	11/14/24	
Client Sample ID:	241113050-06-TRIP-BLANK	SDG No.: P4844		
Lab Sample ID:	P4844-02	Matrix:	Water	
Analytical Method:	SW8260	% Solid:	0	
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL	
Soil Aliquot Vol:	uL	Test:	VOCMS Group2	
GC Column:	RXI-624 ID: 0.25	Level :	LOW	
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN084850.D	1			11/14/24 14:36	VN111424	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

C D



# **Report of Analysis**

Client:	Garden State Laboratories, Inc.	Date Collected:	11/13/24	
Project:	Waste Water 2024	Date Received:	11/14/24	
Client Sample ID:	241113050-06-TRIP-BLANK	SDG No.: P4844		
Lab Sample ID:	P4844-02	Matrix:	Water	
Analytical Method:	SW8260	% Solid:	0	
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL	
Soil Aliquot Vol:	uL	Test:	VOCMS Group2	
GC Column:	RXI-624 ID: 0.25	Level :	LOW	
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID	
VN084850.D	1		11/14/24 14:36	VN111424	J

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	UQ	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	46.9		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		77 - 121	97%	SPK: 50
INTERNAL STA						
363-72-4	Pentafluorobenzene	193000	8.218			
540-36-3	1,4-Difluorobenzene	332000	9.094			
3114-55-4	Chlorobenzene-d5	289000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	140000	13.788			

A

6

C D



		Report of A	nalysis				
Client:	Garden State Lab	oratories, Inc.	Date Collected:	11/13/24			
Project:	Waste Water 2024	ŀ	Date Received:	11/14/24			
Client Sample ID:	241113050-06-TF	RIP-BLANK	SDG No.:	P4844			
Lab Sample ID:	P4844-02		Matrix:	Water			
Analytical Method:	SW8260		% Solid:	0			
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000 uL			
Soil Aliquot Vol:		uL	Test:	VOCMS Group	VOCMS Group2		
GC Column:	RXI-624	ID: 0.25	Level :	LOW			
Prep Method :							
File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID			
VN084850.D	1		11/14/24 14:36	VN111424			
AS Number Par	ameter	Conc. Q	ualifier MDL	LOQ / CRQL	Units		

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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# A B C

D

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# LAB CHRONICLE

OrderID: Client: Contact:	P4844 Garden State Laboratories, Inc. Sharon Ercoliani			OrderDate: Project: Location:	11/14/2024 10:28:00 AM Waste Water 2024 VOA Ref. #3 Water				
LabID	LabID ClientID Matrix		Test	Method	Sample Date	Prep Date	Anal Date	Received	
P4844-01	241113075-01-VOA	Water			11/13/24			11/14/24	
			VOCMS Group2	8260-Low			11/19/24		
P4844-02	241113050-06-TRIP-	Water			11/13/24			11/14/24	
	BLANK		VOCMS Group2	8260-Low	8260-Low		11/14/24		



# <u>SHIPPING</u> DOCUMENTS

7

Main Lab - 410 Hillside Avenue, ersey Shore Lab - 54 Main Street, Tel. 800-273-8901/908-688-8900 Fax 900 Office.and	8-688-896	66 www	.gslal			DATE/	rime/1	EMP. F	REC'D A	SE ONLY
North Jersey Office: 225 Sparta A				el. 97	3-729-1827	Page	,	0	f	
West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel. 908-537-7414 CLIENT INFORMATION (REPORT TO BE SENT TO)							CLIE	NT #		
Name: Garden State Laboratories, Inc.						MICRC	) #			
Mailing Address: 410 Hillside Ave.	0	Macurall			NODELL OZOL	CHEM.				
City/State/Zip: Hilside, NJ. 07205							-	C'D BY:		
	LE INFOR	RMATION		No.			The second second	D SAMP		K-UP
SAMPLE TYPE: WASTE WATER							K-UP	AT DRO	P OFF L	OCATION
SAMPLE LOCATI ACUA SW LANDFILL LEACHAT	ETANKS	S					LIVERE	ED BY C	LIENT	
		LE COLLI	CTIC	ON	ANALYSIS REQUIRED (Print Le	egibly)		AINER		
	Date	Time	AM	PM	List attached Total Pages		No.	Type*	Size	Pres.*
X - 291130750NOA	113/24	4121	×		EPA 8260 TCL LIST + Acrolien & Acr		2	V	MaraL.	A
Wisk Trip blank					EPA 8260 TCL LIST + Acrolien & Aci		-	-	1.Stone	
		-				_				
→ *Container Type: P = Plastic G = Glass A = Amber G → Preservation Code: A = Non Preserved D E = Hydrochloric Acid F = Linc Acetate G = Sodium Thios	B = Sulfuric	Acid C = S	Sodium	Hydro	xide D = Nitric Acid	× s	UBCC	ONTRA	CTED	WOR
TURNAROUND TIME: Stand Rush	(IF RUSH REC	QUESTED) R	ush D	ue by:		SEND T	0:	Chem <sup>-</sup>	Tech	
REPORT FORMA Standard Report		er/Specify:	1			DATE/T		1		
Standard Report + E2 PWS		RMATION	Call William	Total New		METHO	D OF S	HIPMEN	Deliver	
	nposite Fe			123015	Rush Fee: \$	Amount	Due:	9		
Payment Method: Credit Card Type:			eck #			See Qu			Tel Lag	
Note: VOA UNPRESERVED D SAMPLE CUSTODY EXCHANGES MU PLEASE PRINT YOUR N	IST BE	DOCUM	ENTE	DB		6 CHA	NGE F	POSSE		
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Client/Client's Representative (PRINT): Signature:							Date/7	181	265	5172
Received/Relinquished by (PRINT): ) (MIPI ASI2 201			Sign		St. Miller I I d I T		Date/7	imo:	2111	1 1 4

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# Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



## LOGIN REPORT/SAMPLE TRANSFER

7.3

Order ID:P4844GARD04Client Name:Garden State Laboratories, ]Client Contact:Sharon ErcolianiInvoice Name:Garden State Laboratories, ]Invoice Contact:Sharon Ercoliani		rden State Laboratories, ]     Project Name :     Waste Water 2024       wron Ercoliani     Receive DateTime :     11/14/2024 8:20:00 AM			ĨŪ₽							
			Purch	ase Order :		Ha	ard Copy Date : Date Signoff :					
LAB ID	CLIEN	TID		MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P4844-01	2	41113075	-01-VOA	Water	11/13/2024	09:27						
							VOCMS Group1		624.1	10 Bus. Days		
							VOCMS Group2		8260-Low	10 Bus. Days		
P4844-02	24111	3050-06-	TRIP-BLANK	Water	11/13/2024	00:00						
							VOCMS Group1		624.1	10 Bus. Days		
							VOCMS Group2		8260-Low	10 Bus. Davs		

**Relinguished By :** Date / Time : 11-14-24 (155

**Received By :** 11 11:55 14-24 Date / Time :

Storage Area : VOA Refridgerator Room

Page 1 of 1 Page 1 of 1 P 27 lot 27