284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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 : P4646

ATTENTION : Sharon Ercoliani

Laboratory Certification ID # 20012

Table Of Contents for P4646

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

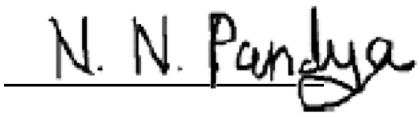
Order ID : P4646

Project ID : Waste Water 2024

Client : Garden State Laboratories, Inc.

Lab Sample Number	Client Sample Number
P4646-01	241030069-01-VOA
P4646-02	241030043-05-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 : 

APPROVED
Date: 11/11/2024
By Nimisha Pandya, QA/QC Supervisor at 12:11 pm, Nov 11, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Garden State Laboratories, Inc.
Project Name: Waste Water 2024
Project # N/A
Chemtech Project # P4646
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 10/31/2024.

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.
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:
“As per method 624.1, 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.

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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.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:11 pm, Nov 11, 2024

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Garden State Laboratories, Inc.
Project Name: Waste Water 2024
Project # N/A
Chemtech Project # P4646
Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:
2 Water samples were received on 10/31/2024.

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_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe 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 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:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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.

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

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.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:12 pm, Nov 11, 2024

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

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	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (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.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	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.
P	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".
N	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.
A	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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4646

	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)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 11/11/2024

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Hit Summary Sheet

624.1

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								

0

Total Voc :

Total Concentration:

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	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
VN084624.D	1		10/31/24 17:25	VN103124

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	29.3		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	27.9		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.8		63 - 112	93%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30800	7.812			
540-36-3	1,4-Difluorobenzene	161000	9.1			
3114-55-4	Chlorobenzene-d5	150000	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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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	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:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084623.D	1		10/31/24 17:01	VN103124

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	29.7		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.0		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.1		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30500	7.806			
540-36-3	1,4-Difluorobenzene	161000	9.1			
3114-55-4	Chlorobenzene-d5	142000	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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LAB CHRONICLE

OrderID:	P4646	**OrderDate:**	10/31/2024 10:57:00 AM
Client:	Garden State Laboratories, Inc.	**Project:**	Waste Water 2024
Contact:	Sharon Ercoliani	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4646-01	**241030069-01-VOA**	**Water**			**10/30/24**			**10/31/24**
			VOCMS Group1	624.1			10/31/24	
P4646-02	**241030043-05-TRIP-BLANK**	**Water**			**10/30/24**			**10/31/24**
			VOCMS Group1	624.1			10/31/24	

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Hit Summary Sheet

8260-Low

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**241030069-01-VOA**								
P4646-01	241030069-01-VOA	Water	Vinyl Chloride		0.42	J	0.34	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Acetone		340		1.40	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Carbon Disulfide		0.57	J	0.32	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Methyl tert-butyl Ether		3.40		0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Methyl Acetate		1.10		0.60	1.00	ug/L
P4646-01	241030069-01-VOA	Water	2-Butanone		290		1.30	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Benzene		4.80		0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	4-Methyl-2-Pentanone		4.20	J	0.75	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Toluene		3.00		0.18	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Chlorobenzene		1.40		0.13	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Ethyl Benzene		7.00		0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	m/p-Xylenes		9.70		0.31	2.00	ug/L
P4646-01	241030069-01-VOA	Water	o-Xylene		6.20		0.14	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Styrene		0.58	J	0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Isopropylbenzene		1.10		0.13	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,4-Dichlorobenzene		4.40		0.27	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,2-Dichlorobenzene		0.43	J	0.19	1.00	ug/L
			Total Voc :		678				
P4646-01	241030069-01-VOA	Water	unknown13.475	*	23.6	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	unknown13.932	*	10.0	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	unknown14.097	*	21.4	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	2-Propanol, 2-methyl-	*	460	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	Dimethyl ether	*	25.8	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	(+)-2-Bornanone	*	130	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	Cyclohexanol, 5-methyl-2-(1-m	*	30.8	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	L-Fenchone	*	94.4	J	0	0	ug/L
P4646-01	241030069-01-VOA	Water	Tetrahydrofuran	*	610	J	1.20	5.00	ug/L
P4646-01	241030069-01-VOA	Water	Diethyl Ether	*	2.90	J	0.20	1.00	ug/L
P4646-01	241030069-01-VOA	Water	n-propylbenzene	*	0.55	J	0.14	1.00	ug/L
P4646-01	241030069-01-VOA	Water	2-Chlorotoluene	*	0.58	J	0.16	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,3,5-Trimethylbenzene	*	0.93	J	0.18	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,2,4-Trimethylbenzene	*	3.80	J	0.18	1.00	ug/L
P4646-01	241030069-01-VOA	Water	p-Isopropyltoluene	*	1.30	J	0.15	1.00	ug/L
P4646-01	241030069-01-VOA	Water	Naphthalene	*	39.2	J	0.59	1.00	ug/L
P4646-01	241030069-01-VOA	Water	1,4-Dioxane	*	130	J	6.50	100	ug/L

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Hit Summary Sheet

8260-Low

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Tics :	1590				
			Total Concentration:	2260				

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043649.D	1		10/31/24 14:27	VX103124

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	0.42	J	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	340		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.57	J	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	3.40		0.16	1.00	ug/L
79-20-9	Methyl Acetate	1.10		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	290		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	4.80		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	4.20	J	0.75	5.00	ug/L
108-88-3	Toluene	3.00		0.18	1.00	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043649.D	1		10/31/24 14:27	VX103124

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	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	1.40		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	7.00		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	9.70		0.31	2.00	ug/L
95-47-6	o-Xylene	6.20		0.14	1.00	ug/L
100-42-5	Styrene	0.58	J	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	1.10		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	4.40		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.43	J	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	45.9		74 - 125	92%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97300	5.544			
540-36-3	1,4-Difluorobenzene	181000	6.757			
3114-55-4	Chlorobenzene-d5	165000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	73800	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043649.D	1		10/31/24 14:27	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000115-10-6	Dimethyl ether	25.8	J		1.25	ug/L
60-29-7	Diethyl Ether	2.90	J		2.14	ug/L
000075-65-0	2-Propanol, 2-methyl-	460	J		3.00	ug/L
109-99-9	Tetrahydrofuran	610	J		5.01	ug/L
123-91-1	1,4-Dioxane	130	J		7.68	ug/L
103-65-1	n-propylbenzene	0.55	J		11.3	ug/L
95-49-8	2-Chlorotoluene	0.58	J		11.4	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.93	J		11.5	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.80	J		11.8	ug/L
99-87-6	p-Isopropyltoluene	1.30	J		12.0	ug/L
007787-20-4	L-Fenchone	94.4	J		12.9	ug/L
	unknown13.475	23.6	J		13.5	ug/L
000464-49-3	(+)-2-Bornanone	130	J		13.5	ug/L
002216-52-6	Cyclohexanol, 5-methyl-2-(1-methyl	30.8	J		13.6	ug/L
91-20-3	Naphthalene	39.2	J		13.8	ug/L
	unknown13.932	10.0	J		13.9	ug/L
	unknown14.097	21.4	J		14.1	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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Fax : 908 789 8922

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043648.D	1		10/31/24 14:03	VX103124

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

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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043648.D	1		10/31/24 14:03	VX103124

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	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	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	U	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	42.2		74 - 125	84%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	49.2		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	187000	6.757			
3114-55-4	Chlorobenzene-d5	165000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	72800	12.024			

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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043648.D	1		10/31/24 14:03	VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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N = Presumptive Evidence of a Compound
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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LAB CHRONICLE

OrderID:	P4646	**OrderDate:**	10/31/2024 10:57:00 AM
Client:	Garden State Laboratories, Inc.	**Project:**	Waste Water 2024
Contact:	Sharon Ercoliani	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4646-01	**241030069-01-VOA**	**Water**			**10/30/24**			**10/31/24**
			VOCMS Group1	624.1			10/31/24	
			VOCMS Group2	8260-Low			10/31/24	
P4646-02	**241030043-05-TRIP-BLANK**	**Water**			**10/30/24**			**10/31/24**
			VOCMS Group1	624.1			10/31/24	
			VOCMS Group2	8260-Low			10/31/24	

SHIPPING DOCUMENTS

Garden State Laboratories, Inc.

Main Lab - 410 Hillside Avenue, Hillside NJ 07205 - NJDEP Lab Cert. #20044
Jersey Shore Lab - 54 Main Street, Waretown NJ 08758 - NJDEP Lab Cert. #15037

Tel. 800-273-8901/908-688-8900 Fax 908-688-8966 www.gslabs.com info@gslabs.com

Office and Drop off Locations

North Jersey Office: 225 Sparta Avenue, Sparta, NJ 07871 Tel. 973-729-1827

West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel. 908-537-7414

P4646

OR SAMPLE RECEIVING USE ONLY

DATE/TIME/TEMP. REC'D AT LAB:

Page ____ of ____

GSL CLIENT #

MICRO #

CHEM. #

SAMPLE REC'D BY:

☐ GSL FIELD SAMPLER/PICK-UP

☐ PICK-UP AT DROP OFF LOCATION

☐ DELIVERED BY CLIENT

CHAIN OF CUSTODY RECORD - PRESS HARD AND PRINT CLEARLY - USE BALL POINT PEN

IMPORTANT: PRINTED NAMES & SIGNATURES ARE REQUIRED

CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Robert Szot

Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 EXT 129

City/State/Zip: Hilside, NJ. 07205 Email: rszot@gslabs.com

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER

SAMPLE LOCATI ACUA SW LANDFILL LEACHATE TANKS

Grab	Comp	SAMPLE ID	SAMPLE COLLECTION Date	Time	AM	PM	ANALYSIS REQUIRED (Print Legibly) CONTAINER INFORMATION	No.	Type*	Size	Pres.*
X	X 10	VOA 2410300649-01	10/30/24	10:56	X		EPA 8260 TCL LIST + Acrolien & Acrylonitrile	3	V	40ml	A
X		Trip blank 2410300443-05	—	—			EPA 8260 TCL LIST + Acrolien & Acı	2	V	40ml	A

☐ List attached Total Pages ____

⇨ *Container Type: P = Plastic G = Glass A = Amber Glass T = Sterile Thio V = Vial Other/Specify:* ____

⇨ *Preservation Code: A = Non Preserved B = Sulfuric Acid C = Sodium Hydroxide D = Nitric Acid E = Hydrochloric Acid F = Zinc Acetate G = Sodium Thiosulfate H = Ascorbic Acid I = Cooled Other/Specify:* ____

☒ SUBCONTRACTED WORK

TURNAROUND TIME: ☒ Stand ☐ Rush (IF RUSH REQUESTED) Rush Due by:

REPORT FORMA ☒ Standard Report ☐ Other/Specify:

☐ Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME:

METHOD OF SHIPMEN Deliver

PAYMENT INFORMATION

☐ Sampling/Pick-up Fee: $ ☐ Composite Fee: $ ☐ Rush Fee: $ Amount Due: $

Payment Method: ☐ Credit Card Type: ☐ Check # ☐ Other: See Quote

Note:

VOA UNPRESERVED DUE TO EFFERVESCENSE - 3 DAY TAT PER JORDAN HE ATL16

Temp 3.7°

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION
PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATURE, DATE AND TIME

Sampled by (PRINT):	Signature:	Date/Time:
Client/Client's Representative (PRINT):	Signature:	Date/Time:
1. Received/Relinquished by (PRINT): Daniel Askey	Signature:	Date/Time: 10/30/24 15:32
2. Received/Relinquished by (PRINT): Matt JACKSON	Signature:	Date/Time: 10/31/24 8:28

Jamir Davis

10-31-24 0828

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P4646 GARD04	**Order Date :**	10/31/2024 10:57:00 AM	**Project Mgr :**	
Client Name :	Garden State Laboratories, I	**Project Name :**	Waste Water 2024	**Report Type :**	Level 1
Client Contact :	Sharon Ercoliani	**Receive DateTime :**	10/31/2024 8:28:00 AM	**EDD Type :**	EXCEL NOCLEANUP
Invoice Name :	Garden State Laboratories, I	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Sharon Ercoliani			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4646-01	241030069-01-VOA	Water	10/30/2024	10:56					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days
P4646-02	241030043-05-TRIP-BLANK	Water	10/30/2024	00:00					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days

Relinguished By : CR
Date / Time : 10-31-24 1225

Received By : M
Date / Time : 10-31-24 12:25 ~~12:12~~

Storage Area : VOA Refridgerator Room