

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS

PROJECT NAME : ANSONIA LANDFILL 2024

LOCKWOOD, KESSLER & BARTLETT, INC.

1 Aerial Way

Syosset, NY - 11791-

Phone No: 516-938-0600

ORDER ID : P4548

ATTENTION : John Gerlach



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4548

Project ID : Ansonia Landfill 2024

Client : Lockwood, Kessler & Bartlett, Inc.

Lab Sample Number

P4548-01
P4548-02
P4548-03
P4548-04
P4548-05
P4548-06
P4548-07
P4548-08
P4548-09

Client Sample Number

MW-1
MW-1
MW-2
MW-2
MW-3
MW-3
MW-4
MW-4
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 : N. N. Pandya

NYDOH CERTIFICATION NO - 11376

APPROVED

Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 11:41:26 AM

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.

Project Name: Ansonia Landfill 2024

Project # N/A

Chemtech Project # P4548

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

9 Water samples were received on 10/23/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 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.

Trip Blank was not provided with this set of samples.

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.



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

2

2.1

F. Manual Integration Comments:

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

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Signature N. N. Pandya





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

CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.

Project Name: Ansonia Landfill 2024

Project # N/A

Chemtech Project # P4548

Test Name: Dissolved Metals Group5, Metals Group4

A. Number of Samples and Date of Receipt:

9 Water samples were received on 10/24/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for Dissolved Metals Group5, Metals Group4.

C. Analytical Techniques:

The analysis of Dissolved Metals Group5, Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (MW-1MS) analysis met criteria for all samples except for Silver and Zinc due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (MW-1MSD) analysis met criteria for all samples except for Silver and Zinc due to Chemical Interference during Digestion Process.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

Sample P4548-01, P4548-03, P4548-05, P4548-07 were analyzed as Total Metal and

Sample P4548-02, P4548-04, P4548-06, P4548-08 were analyzed as Dissolve Metal.

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Signature N. N. Pandya

APPROVED

Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 11:41:41 AM

CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.

Project Name: Ansonia Landfill 2024

Project # N/A

Chemtech Project # P4548

Test Name: Total

Nitrogen,pH,Alkalinity,TKN,Ammonia,Turbidity,TDS,BOD5,TSS,Anions Group1

A. Number of Samples and Date of Receipt:

9 Water samples were received on 10/24/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for Total Nitrogen, pH, Alkalinity, TKN, Ammonia, Turbidity, TDS, BOD5, TSS, Anions Group1.

C. Analytical Techniques:

The analysis of Anions Group1 was based on method 300.0, The analysis of pH was based on method 9040C, The analysis of Total Nitrogen was based on method Cal, The analysis of Turbidity was based on method SM2130 B, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3 and The analysis of BOD5 was based on method SM5210 B.

D. QA/ QC Samples:

The Holding Times were met for all samples except for MW-1 of pH, for MW-2 of pH,for MW-3 of pH,for MW-4 of pH as samples were Receive out of holding time. Sample MW-1 was diluted due to high concentrations for Chloride & Sample MW-2 was diluted due to high concentrations for Ammonia as N, TKN, Chloride, Sulfate & Sample MW-2DL was diluted due to high concentrations for Chloride & Sample MW-3 was diluted due to high concentrations for Ammonia as N, Chloride & Sample MW-4 was diluted due to high concentrations for Ammonia as N, Chloride.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (MW-1MS) analysis met criteria for all samples except for Chloride due to matrix interference.

The Matrix Spike Duplicate (MW-1MSD) analysis met criteria for all samples except for Chloride due to matrix interference.

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

The Calibration met the requirements.

E. Additional Comments:

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

Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 11:41:52 AM

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4548

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 Custody

✓

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: 11/06/2024

LAB CHRONICLE

OrderID:	P4548	OrderDate:	10/24/2024 3:18:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2024
Contact:	John Gerlach	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4548-01	MW-1	Water	VOCMS Group1	8260-Low	10/23/24		10/29/24	10/24/24
P4548-03	MW-2	Water	VOCMS Group1	8260-Low	10/23/24		10/29/24	10/24/24
P4548-05	MW-3	Water	VOCMS Group1	8260-Low	10/23/24		10/29/24	10/24/24
P4548-07	MW-4	Water	VOCMS Group1	8260-Low	10/23/24		10/29/24	10/24/24
P4548-09	TRIP BLANK	Water	VOCMS Group1	8260-Low	10/23/24		10/29/24	10/24/24

Hit Summary Sheet
SW-846

SDG No.: P4548
Client: Lockwood, Kessler & Bartlett, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P4548-01	MW-1 MW-1	Water	Acetone	1.80	J	1.40	5.00	ug/L
			Total Voc :	1.80				
			Total Concentration:	1.80				
Client ID: P4548-03	MW-2 MW-2	Water	Vinyl Chloride	0.60	J	0.34	1.00	ug/L
P4548-03	MW-2	Water	Acetone	2.10	J	1.40	5.00	ug/L
P4548-03	MW-2	Water	cis-1,2-Dichloroethene	0.90	J	0.25	1.00	ug/L
P4548-03	MW-2	Water	Chlorobenzene	0.86	J	0.13	1.00	ug/L
			Total Voc :	4.46				
			Total Concentration:	4.46				
Client ID: P4548-05	MW-3 MW-3	Water	Acetone	1.80	J	1.40	5.00	ug/L
			Total Voc :	1.80				
			Total Concentration:	1.80				
Client ID: P4548-07	MW-4 MW-4	Water	Acetone	2.00	J	1.40	5.00	ug/L
P4548-07	MW-4	Water	Chlorobenzene	0.28	J	0.13	1.00	ug/L
			Total Voc :	2.28				
			Total Concentration:	2.28				
Client ID: P4548-09	TRIP BLANK TRIP BLANK	Water	Acetone	1.60	J	1.40	5.00	ug/L
P4548-09	TRIP BLANK	Water	Methylene Chloride	0.36	J	0.32	1.00	ug/L
			Total Voc :	1.96				
			Total Concentration:	1.96				



SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043593.D	1		10/29/24 13:43	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	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
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.80	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	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
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	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
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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043593.D	1		10/29/24 13:43	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	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
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	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
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.63	U	0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.8		74 - 125	88%	SPK: 50
1868-53-7	Dibromofluoromethane	44.8		75 - 124	90%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	5.55			
540-36-3	1,4-Difluorobenzene	264000	6.757			
3114-55-4	Chlorobenzene-d5	233000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	102000	12.024			

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043594.D	1		10/29/24 14:06	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.60	J	0.34	1.00	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
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	2.10	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	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	0.90	J	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
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	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
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
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	0.86	J	0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043594.D	1		10/29/24 14:06	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	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
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	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
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.63	U	0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	45.9		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	49.7		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	5.55			
540-36-3	1,4-Difluorobenzene	275000	6.757			
3114-55-4	Chlorobenzene-d5	240000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	107000	12.024			

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043595.D	1		10/29/24 14:29	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	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
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.80	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	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
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	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
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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043595.D	1		10/29/24 14:29	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	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
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	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
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.63	U	0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.5		74 - 125	85%	SPK: 50
1868-53-7	Dibromofluoromethane	45.4		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	141000	5.55			
540-36-3	1,4-Difluorobenzene	262000	6.757			
3114-55-4	Chlorobenzene-d5	233000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.024			

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043596.D	1		10/29/24 14:52	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	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
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	2.00	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	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
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	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
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
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	0.28	J	0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043596.D	1		10/29/24 14:52	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	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
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	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
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.63	U	0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3		74 - 125	87%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	146000	5.55			
540-36-3	1,4-Difluorobenzene	271000	6.757			
3114-55-4	Chlorobenzene-d5	234000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	105000	12.024			

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	TRIP BLANK	SDG No.:	P4548
Lab Sample ID:	P4548-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043592.D	1		10/29/24 13:19	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	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
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.60	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
75-09-2	Methylene Chloride	0.36	J	0.32	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	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
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	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
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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	TRIP BLANK	SDG No.:	P4548
Lab Sample ID:	P4548-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043592.D	1		10/29/24 13:19	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	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
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	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
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.63	U	0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.4		74 - 125	89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	5.55			
540-36-3	1,4-Difluorobenzene	298000	6.757			
3114-55-4	Chlorobenzene-d5	259000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	116000	12.024			

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

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* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: P4548

Client: Lockwood, Kessler & Bartlett, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4548-01	MW-1	1,2-Dichloroethane-d4	50	43.8	88	74	125
		Dibromofluoromethane	50	44.8	90	75	124
		Toluene-d8	50	49.8	100	86	113
		4-Bromofluorobenzene	50	48.3	97	77	121
P4548-03	MW-2	1,2-Dichloroethane-d4	50	42.8	86	74	125
		Dibromofluoromethane	50	45.9	92	75	124
		Toluene-d8	50	49.7	99	86	113
		4-Bromofluorobenzene	50	47.7	95	77	121
P4548-05	MW-3	1,2-Dichloroethane-d4	50	42.5	85	74	125
		Dibromofluoromethane	50	45.4	91	75	124
		Toluene-d8	50	50.2	100	86	113
		4-Bromofluorobenzene	50	48.8	98	77	121
P4548-07	MW-4	1,2-Dichloroethane-d4	50	43.3	87	74	125
		Dibromofluoromethane	50	46.0	92	75	124
		Toluene-d8	50	49.6	99	86	113
		4-Bromofluorobenzene	50	47.4	95	77	121
P4548-09	TRIP BLANK	1,2-Dichloroethane-d4	50	44.4	89	74	125
		Dibromofluoromethane	50	45.6	91	75	124
		Toluene-d8	50	49.8	100	86	113
		4-Bromofluorobenzene	50	47.5	95	77	121
VX1029WBL01	VX1029WBL01	1,2-Dichloroethane-d4	50	43.4	87	74	125
		Dibromofluoromethane	50	45.5	91	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	50.6	101	77	121
VX1029WBS01	VX1029WBS01	1,2-Dichloroethane-d4	50	42.1	84	74	125
		Dibromofluoromethane	50	46.6	93	75	124
		Toluene-d8	50	48.3	97	86	113
		4-Bromofluorobenzene	50	47.0	94	77	121
VX1029WBSD0	VX1029WBSD01	1,2-Dichloroethane-d4	50	42.9	86	74	125
		Dibromofluoromethane	50	47.2	94	75	124
		Toluene-d8	50	50.0	100	86	113
		4-Bromofluorobenzene	50	50.0	100	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4548

Client: Lockwood, Kessler & Bartlett, Inc.

Analytical Method: SW8260-Low

Datafile : VX043586.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX1029WBS01	Vinyl chloride	20	18.2	ug/L	91			65	117	
	Chloroethane	20	19.0	ug/L	95			56	128	
	Trichlorofluoromethane	20	20.7	ug/L	104			73	115	
	1,1-Dichloroethene	20	19.4	ug/L	97			74	110	
	Acrylonitrile	100	85.2	ug/L	85			73	113	
	Acetone	100	92.3	ug/L	92			60	125	
	Carbon disulfide	20	18.2	ug/L	91			64	112	
	Methylene Chloride	20	17.1	ug/L	86			72	114	
	Vinyl Acetate	100	89.3	ug/L	89			76	115	
	2-Butanone	100	86.1	ug/L	86			65	122	
	Carbon Tetrachloride	20	20.1	ug/L	101			77	113	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			77	110	
	Bromochloromethane	20	17.5	ug/L	88			70	124	
	Chloroform	20	18.1	ug/L	91			79	113	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			80	108	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloropropane	20	18.2	ug/L	91			83	111	
	Dibromomethane	20	17.9	ug/L	90			82	110	
	Bromodichloromethane	20	18.3	ug/L	92			83	110	
	4-Methyl-2-Pentanone	100	90.2	ug/L	90			74	118	
	Toluene	20	19.9	ug/L	100			82	110	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			79	110	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			82	110	
	2-Hexanone	100	91.2	ug/L	91			73	117	
	Dibromochloromethane	20	18.7	ug/L	94			82	110	
	1,2-Dibromoethane	20	18.5	ug/L	93			81	110	
	Tetrachloroethene	20	21.2	ug/L	106			67	123	
	Chlorobenzene	20	19.4	ug/L	97			82	109	
	1,1,1,2-Tetrachloroethane	20	19.7	ug/L	99			84	111	
	Ethyl Benzene	20	20.2	ug/L	101			83	109	
	m/p-Xylenes	40	40.6	ug/L	102			82	110	
	o-Xylene	20	20.1	ug/L	101			83	109	
	Styrene	20	20.2	ug/L	101			80	111	
	Bromoform	20	17.8	ug/L	89			79	109	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			76	118	
	1,2,3-Trichloropropane	20	17.8	ug/L	89			75	112	
	1,4-Dichlorobenzene	20	19.3	ug/L	97			82	107	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			82	109	
	1,2-Dibromo-3-Chloropropane	20	16.5	ug/L	83			68	112	
	Methyl iodide	20	18.7	ug/L	94			70	130	
	trans-1,4-Dichloro-2-butene	20	17.9	ug/L	90			79	102	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4548

Client: Lockwood, Kessler & Bartlett, Inc.

Analytical Method: SW8260-Low

Datafile : VX043587.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1029WBSD01	Vinyl chloride	20	18.1	ug/L	91	0		65	117	20
	Chloroethane	20	18.9	ug/L	95	0		56	128	20
	Trichlorofluoromethane	20	20.6	ug/L	103	1		73	115	20
	1,1-Dichloroethene	20	19.1	ug/L	96	1		74	110	20
	Acrylonitrile	100	90.3	ug/L	90	6		73	113	20
	Acetone	100	95.8	ug/L	96	4		60	125	20
	Carbon disulfide	20	18.1	ug/L	91	0		64	112	20
	Methylene Chloride	20	17.0	ug/L	85	1		72	114	20
	Vinyl Acetate	100	92.3	ug/L	92	3		76	115	20
	2-Butanone	100	91.3	ug/L	91	6		65	122	20
	Carbon Tetrachloride	20	20.0	ug/L	100	1		77	113	20
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	1		77	110	20
	Bromochloromethane	20	18.8	ug/L	94	7		70	124	20
	Chloroform	20	18.3	ug/L	92	1		79	113	20
	1,1,1-Trichloroethane	20	19.1	ug/L	96	1		80	108	20
	Benzene	20	19.5	ug/L	98	3		82	109	20
	1,2-Dichloropropane	20	19.1	ug/L	96	5		83	111	20
	Dibromomethane	20	19.0	ug/L	95	5		82	110	20
	Bromodichloromethane	20	18.9	ug/L	95	3		83	110	20
	4-Methyl-2-Pentanone	100	98.8	ug/L	99	10		74	118	20
	Toluene	20	20.2	ug/L	101	1		82	110	20
	t-1,3-Dichloropropene	20	19.1	ug/L	96	8		79	110	20
	cis-1,3-Dichloropropene	20	20.1	ug/L	101	3		82	110	20
	2-Hexanone	100	100	ug/L	100	9		73	117	20
	Dibromochloromethane	20	19.6	ug/L	98	4		82	110	20
	1,2-Dibromoethane	20	19.7	ug/L	99	6		81	110	20
	Tetrachloroethene	20	21.1	ug/L	106	0		67	123	20
	Chlorobenzene	20	19.8	ug/L	99	2		82	109	20
	1,1,1,2-Tetrachloroethane	20	20.7	ug/L	104	5		84	111	20
	Ethyl Benzene	20	20.2	ug/L	101	0		83	109	20
	m/p-Xylenes	40	41.9	ug/L	105	3		82	110	20
	o-Xylene	20	20.8	ug/L	104	3		83	109	20
	Styrene	20	20.5	ug/L	103	2		80	111	20
	Bromoform	20	18.8	ug/L	94	5		79	109	20
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98	5		76	118	20
	1,2,3-Trichloropropane	20	18.9	ug/L	95	7		75	112	20
	1,4-Dichlorobenzene	20	19.1	ug/L	96	1		82	107	20
	1,2-Dichlorobenzene	20	20.1	ug/L	101	4		82	109	20
	1,2-Dibromo-3-Chloropropane	20	18.7	ug/L	94	12		68	112	20
	Methyl iodide	20	19.5	ug/L	98	4		70	130	20
	trans-1,4-Dichloro-2-butene	20	18.5	ug/L	93	3		79	102	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1029WBL01

Lab Name: CHEMTECH

Contract: LOCK01

Lab Code: CHEM Case No.: P4548

SAS No.: P4548 SDG NO.: P4548

Lab File ID: VX043585.D

Lab Sample ID: VX1029WBL01

Date Analyzed: 10/29/2024

Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1029WBS01	VX1029WBS01	VX043586.D	10/29/2024
VX1029WBSD01	VX1029WBSD01	VX043587.D	10/29/2024
TRIP BLANK	P4548-09	VX043592.D	10/29/2024
MW-1	P4548-01	VX043593.D	10/29/2024
MW-2	P4548-03	VX043594.D	10/29/2024
MW-3	P4548-05	VX043595.D	10/29/2024
MW-4	P4548-07	VX043596.D	10/29/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LOCK01
Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG NO.: P4548
Lab File ID: VX043555.D BFB Injection Date: 10/28/2024
Instrument ID: MSVOA_X BFB Injection Time: 10:09
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	5.6 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.1 (6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX043556.D	10/28/2024	10:59
VSTDIC005	VSTDIC005	VX043557.D	10/28/2024	11:22
VSTDIC020	VSTDIC020	VX043558.D	10/28/2024	11:45
VSTDIC050	VSTDIC050	VX043559.D	10/28/2024	12:08
VSTDIC100	VSTDIC100	VX043560.D	10/28/2024	12:31
VSTDIC150	VSTDIC150	VX043561.D	10/28/2024	12:54

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LOCK01
Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG NO.: P4548
Lab File ID: VX043582.D BFB Injection Date: 10/29/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:30
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.5 (96.2) 1
177	5.0 - 9.0% of mass 176	4.7 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX043583.D	10/29/2024	09:29
VX1029WBL01	VX1029WBL01	VX043585.D	10/29/2024	10:31
VX1029WBS01	VX1029WBS01	VX043586.D	10/29/2024	10:57
VX1029WBSD01	VX1029WBSD01	VX043587.D	10/29/2024	11:20
TRIP BLANK	P4548-09	VX043592.D	10/29/2024	13:19
MW-1	P4548-01	VX043593.D	10/29/2024	13:43
MW-2	P4548-03	VX043594.D	10/29/2024	14:06
MW-3	P4548-05	VX043595.D	10/29/2024	14:29
MW-4	P4548-07	VX043596.D	10/29/2024	14:52

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LOCK01
Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG NO.: P4548
Lab File ID: VX043583.D Date Analyzed: 10/29/2024
Instrument ID: MSVOA_X Time Analyzed: 09:29
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	185040	5.54	317661	6.76	277122	10.06
UPPER LIMIT	370080	6.044	635322	7.257	554244	10.555
LOWER LIMIT	92520	5.044	158831	6.257	138561	9.555
EPA SAMPLE NO.						
MW-1	142471	5.55	263505	6.76	232626	10.06
MW-2	149761	5.55	275286	6.76	240367	10.06
MW-3	141379	5.55	261836	6.76	233166	10.06
MW-4	145951	5.55	270530	6.76	234106	10.06
TRIP BLANK	160173	5.55	298248	6.76	258594	10.06
VX1029WBL01	160199	5.55	295395	6.76	265502	10.06
VX1029WBS01	202431	5.54	352202	6.76	294857	10.06
VX1029WBSD01	180366	5.55	312050	6.76	270005	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LOCK01
Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG NO.: P4548
Lab File ID: VX043583.D Date Analyzed: 10/29/2024
Instrument ID: MSVOA_X Time Analyzed: 09:29
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	136145	12.018				
UPPER LIMIT	272290	12.518				
LOWER LIMIT	68072.5	11.518				
EPA SAMPLE NO.						
MW-1	102053	12.02				
MW-2	106864	12.02				
MW-3	104208	12.02				
MW-4	105382	12.02				
TRIP BLANK	115532	12.02				
VX1029WBL01	128354	12.02				
VX1029WBS01	142936	12.02				
VX1029WBSD01	131226	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2024		Date Received:	
Client Sample ID:	VX1029WBL01		SDG No.:	P4548
Lab Sample ID:	VX1029WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	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
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	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
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	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
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	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
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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2024		Date Received:	
Client Sample ID:	VX1029WBL01		SDG No.:	P4548
Lab Sample ID:	VX1029WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	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
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	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
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.63	U	0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		74 - 125	87%	SPK: 50
1868-53-7	Dibromofluoromethane	45.5		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	50.5		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	5.55			
540-36-3	1,4-Difluorobenzene	295000	6.757			
3114-55-4	Chlorobenzene-d5	266000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	128000	12.018			

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2024	Date Received:	
Client Sample ID:	VX1029WBS01	SDG No.:	P4548
Lab Sample ID:	VX1029WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.2		0.34	1.00	ug/L
75-00-3	Chloroethane	19.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.4		0.26	1.00	ug/L
107-13-1	Acrylonitrile	85.2		0.90	5.00	ug/L
67-64-1	Acetone	92.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.2		0.32	1.00	ug/L
75-09-2	Methylene Chloride	17.1		0.32	1.00	ug/L
108-05-4	Vinyl Acetate	89.3		0.71	5.00	ug/L
78-93-3	2-Butanone	86.1		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	17.5		0.18	1.00	ug/L
67-66-3	Chloroform	18.1		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
71-43-2	Benzene	18.9		0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.19	1.00	ug/L
74-95-3	Dibromomethane	17.9		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.2		0.75	5.00	ug/L
108-88-3	Toluene	19.9		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	1.00	ug/L
591-78-6	2-Hexanone	91.2		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.7		0.21	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2024	Date Received:	
Client Sample ID:	VX1029WBS01	SDG No.:	P4548
Lab Sample ID:	VX1029WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	60.7		0.45	3.00	ug/L
100-42-5	Styrene	20.2		0.16	1.00	ug/L
75-25-2	Bromoform	17.8		0.21	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	17.8		0.39	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		0.46	1.00	ug/L
74-88-4	Methyl Iodide	18.7		1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	17.9		0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.1		74 - 125	84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		75 - 124	93%	SPK: 50
2037-26-5	Toluene-d8	48.3		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	202000	5.544			
540-36-3	1,4-Difluorobenzene	352000	6.757			
3114-55-4	Chlorobenzene-d5	295000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	143000	12.018			

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2024	Date Received:	
Client Sample ID:	VX1029WBSD01	SDG No.:	P4548
Lab Sample ID:	VX1029WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.1		0.34	1.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.26	1.00	ug/L
107-13-1	Acrylonitrile	90.3		0.90	5.00	ug/L
67-64-1	Acetone	95.8		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.32	1.00	ug/L
75-09-2	Methylene Chloride	17.0		0.32	1.00	ug/L
108-05-4	Vinyl Acetate	92.3		0.71	5.00	ug/L
78-93-3	2-Butanone	91.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	18.8		0.18	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.1		0.19	1.00	ug/L
71-43-2	Benzene	19.5		0.16	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	1.00	ug/L
74-95-3	Dibromomethane	19.0		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.8		0.75	5.00	ug/L
108-88-3	Toluene	20.2		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.18	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.7		0.21	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2024		Date Received:	
Client Sample ID:	VX1029WBSD01		SDG No.:	P4548
Lab Sample ID:	VX1029WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	62.7		0.45	3.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	18.8		0.21	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.9		0.39	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		0.46	1.00	ug/L
74-88-4	Methyl Iodide	19.5		1.20	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	18.5		0.63	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.9		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	50.0		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	5.55			
540-36-3	1,4-Difluorobenzene	312000	6.757			
3114-55-4	Chlorobenzene-d5	270000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	131000	12.024			

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LOCK01

Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG No.: P4548

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX043556.D			RRF005 = VX043557.D		RRF020 = VX043558.D		
	RRF050 = VX043559.D			RRF100 = VX043560.D		RRF150 = VX043561.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2
Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	9
Trichlorofluoromethane	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.1
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3
Acrylonitrile	0.302	0.335	0.331	0.348	0.360	0.340	0.336	5.8
Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.2
Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.6
Methylene Chloride	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.2
Vinyl Acetate	1.326	1.547	1.607	1.688	1.706	1.618	1.582	8.7
2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.5
Carbon Tetrachloride	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.8
cis-1,2-Dichloroethene	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.3
Bromochloromethane	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.7
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8
1,1,1-Trichloroethane	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.3
Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	4
1,2-Dichloropropane	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.2
Dibromomethane	0.230	0.264	0.258	0.260	0.262	0.252	0.254	4.9
Bromodichloromethane	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10
4-Methyl-2-Pentanone	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8
Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.7
t-1,3-Dichloropropene	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.6
cis-1,3-Dichloropropene	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12
2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.3
Dibromochloromethane	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.4
1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.8
Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.8
Chlorobenzene	1.098	1.110	1.083	1.075	1.081	1.007	1.076	3.3
1,1,1,2-Tetrachloroethane	0.301	0.345	0.350	0.372	0.381	0.359	0.351	8.1
Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LOCK01

Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG No.: P4548

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX043556.D		RRF005 = VX043557.D		RRF020 = VX043558.D		
		RRF050 = VX043559.D		RRF100 = VX043560.D		RRF150 = VX043561.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.2
o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.2
Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.8
Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.9
1,1,2,2-Tetrachloroethane	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.9
1,2,3-Trichloropropane	0.928	1.210	1.166	1.071	1.043	0.996	1.069	9.8
1,4-Dichlorobenzene	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.1
1,2-Dichlorobenzene	1.638	1.735	1.698	1.726	1.675	1.586	1.676	3.4
1,2-Dibromo-3-Chloropropane	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.5
1,2-Dichloroethane-d4		0.902	0.794	0.785	0.771	0.735	0.797	7.9
Dibromofluoromethane		0.358	0.337	0.336	0.342	0.323	0.339	3.7
Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.8
4-Bromofluorobenzene		0.446	0.431	0.444	0.439	0.415	0.435	2.9
Methyl Iodide		0.726	0.762	0.782	0.789	0.726	0.757	4
trans-1,4-Dichloro-2-butene		0.290	0.356	0.418	0.447	0.432	0.389	16.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LOCK01

Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG No.: P4548

Instrument ID: MSVOA_X Calibration Date/Time: 10/29/2024 09:29

Lab File ID: VX043583.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.634	0.614		-3.31	20
Chloroethane	0.223	0.209		-6.28	20
Trichlorofluoromethane	0.775	0.759		-2.07	20
1,1-Dichloroethene	0.536	0.536		0	20
Acrylonitrile	0.336	0.284		-15.48	20
Acetone	0.317	0.297		-6.31	20
Carbon Disulfide	1.120	1.146		2.32	20
Methylene Chloride	0.682	0.601		-11.88	20
Vinyl Acetate	1.582	1.472		-6.95	20
2-Butanone	0.462	0.403		-12.77	20
Carbon Tetrachloride	0.444	0.466		4.95	20
cis-1,2-Dichloroethene	0.723	0.687		-4.98	20
Bromochloromethane	0.524	0.462		-11.83	20
Chloroform	1.154	1.065		-7.71	20
1,1,1-Trichloroethane	0.969	0.948		-2.17	20
Benzene	1.341	1.333		-0.6	20
1,2-Dichloropropane	0.330	0.327		-0.91	20
Dibromomethane	0.254	0.245		-3.54	20
Bromodichloromethane	0.446	0.461		3.36	20
4-Methyl-2-Pentanone	0.492	0.451		-8.33	20
Toluene	0.813	0.854		5.04	20
t-1,3-Dichloropropene	0.479	0.490		2.3	20
cis-1,3-Dichloropropene	0.510	0.537		5.29	20
2-Hexanone	0.374	0.352		-5.88	20
Dibromochloromethane	0.335	0.358		6.87	20
1,2-Dibromoethane	0.351	0.346		-1.42	20
Tetrachloroethene	0.314	0.333		6.05	20
Chlorobenzene	1.076	1.092	0.3	1.49	20
1,1,1,2-Tetrachloroethane	0.351	0.374		6.55	20
Ethyl Benzene	1.754	1.860		6.04	20
m/p-Xylenes	0.671	0.725		8.05	20
o-Xylene	0.674	0.708		5.05	20
Styrene	1.120	1.213		8.3	20
Bromoform	0.253	0.265	0.1	4.74	20
1,1,2,2-Tetrachloroethane	1.274	1.176	0.3	-7.69	20
1,2,3-Trichloropropane	1.069	0.968		-9.45	20
1,4-Dichlorobenzene	1.699	1.695		-0.23	20
1,2-Dichlorobenzene	1.676	1.698		1.31	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LOCK01

Lab Code: CHEM Case No.: P4548 SAS No.: P4548 SDG No.: P4548

Instrument ID: MSVOA_X Calibration Date/Time: 10/29/2024 09:29

Lab File ID: VX043583.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,2-Dibromo-3-Chloropropane	0.260	0.235		-9.61	20
1,2-Dichloroethane-d4	0.797	0.708		-11.17	20
Dibromofluoromethane	0.339	0.345		1.77	20
Toluene-d8	1.174	1.260		7.32	20
4-Bromofluorobenzene	0.435	0.471		8.28	20
Methyl Iodide	0.757	0.732		-3.3	20
trans-1,4-Dichloro-2-butene	0.389	0.386		-0.77	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

LAB CHRONICLE

OrderID:	P4548	OrderDate:	10/24/2024 3:18:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2024
Contact:	John Gerlach	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4548-01	MW-1	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-02	MW-1	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-03	MW-2	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-04	MW-2	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-05	MW-3	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-06	MW-3	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-07	MW-4	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-08	MW-4	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24

Hit Summary Sheet SW-846

SDG No.: P4548 **Order ID:** P4548
Client: Lockwood, Kessler & Bartlett, Inc. **Project ID:** Ansonia Landfill 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-1								
P4548-01	MW-1	Water	Barium	62.5		6.28	50.0	ug/L
P4548-01	MW-1	Water	Cadmium	2.09	J	0.094	3.00	ug/L
P4548-01	MW-1	Water	Chromium	1.48	J	0.66	5.00	ug/L
P4548-01	MW-1	Water	Nickel	6.80	J	0.85	20.0	ug/L
P4548-01	MW-1	Water	Potassium	5230		685	1000	ug/L
P4548-01	MW-1	Water	Sodium	53100		237	1000	ug/L
P4548-01	MW-1	Water	Zinc	254		1.75	20.0	ug/L
Client ID : MW-1								
P4548-02	MW-1	Water	Iron	207		18.5	50.0	ug/L
P4548-02	MW-1	Water	Manganese	89.9		1.46	10.0	ug/L
Client ID : MW-2								
P4548-03	MW-2	Water	Barium	163		6.28	50.0	ug/L
P4548-03	MW-2	Water	Cadmium	0.94	J	0.094	3.00	ug/L
P4548-03	MW-2	Water	Chromium	4.47	J	0.66	5.00	ug/L
P4548-03	MW-2	Water	Cobalt	1.38	J	0.50	15.0	ug/L
P4548-03	MW-2	Water	Nickel	21.5		0.85	20.0	ug/L
P4548-03	MW-2	Water	Potassium	29300		685	1000	ug/L
P4548-03	MW-2	Water	Silver	1.14	J	0.58	5.00	ug/L
P4548-03	MW-2	Water	Sodium	292000		237	1000	ug/L
P4548-03	MW-2	Water	Zinc	59.4		1.75	20.0	ug/L
Client ID : MW-2								
P4548-04	MW-2	Water	Iron	13700		18.5	50.0	ug/L
P4548-04	MW-2	Water	Manganese	1220		1.46	10.0	ug/L
Client ID : MW-3								
P4548-05	MW-3	Water	Barium	140		6.28	50.0	ug/L
P4548-05	MW-3	Water	Cadmium	0.49	J	0.094	3.00	ug/L
P4548-05	MW-3	Water	Chromium	5.02		0.66	5.00	ug/L
P4548-05	MW-3	Water	Cobalt	1.26	J	0.50	15.0	ug/L
P4548-05	MW-3	Water	Nickel	5.61	J	0.85	20.0	ug/L
P4548-05	MW-3	Water	Potassium	22000		685	1000	ug/L
P4548-05	MW-3	Water	Sodium	175000		237	1000	ug/L
P4548-05	MW-3	Water	Zinc	20.8		1.75	20.0	ug/L
Client ID : MW-3								
P4548-06	MW-3	Water	Iron	3060		18.5	50.0	ug/L

Hit Summary Sheet
SW-846

SDG No.:	P4548	Order ID:	P4548
Client:	Lockwood, Kessler & Bartlett, Inc.	Project ID:	Ansonia Landfill 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4548-06	MW-3	Water	Manganese	513		1.46	10.0	ug/L
Client ID : MW-4								
P4548-07	MW-4	Water	Barium	142		6.28	50.0	ug/L
P4548-07	MW-4	Water	Cadmium	0.54	J	0.094	3.00	ug/L
P4548-07	MW-4	Water	Chromium	8.40		0.66	5.00	ug/L
P4548-07	MW-4	Water	Cobalt	1.42	J	0.50	15.0	ug/L
P4548-07	MW-4	Water	Nickel	7.38	J	0.85	20.0	ug/L
P4548-07	MW-4	Water	Potassium	22900		685	1000	ug/L
P4548-07	MW-4	Water	Sodium	181000		237	1000	ug/L
P4548-07	MW-4	Water	Zinc	21.4		1.75	20.0	ug/L
Client ID : MW-4								
P4548-08	MW-4	Water	Iron	2550		18.5	50.0	ug/L
P4548-08	MW-4	Water	Manganese	432		1.46	10.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-39-3	Barium	62.5		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-43-9	Cadmium	2.09	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-47-3	Chromium	1.48	J	1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-02-0	Nickel	6.80	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-09-7	Potassium	5230		1	685	1000	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-23-5	Sodium	53100		1	237	1000	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-66-6	Zinc	254	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	207		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:27	SW6010	SW3010
7439-96-5	Manganese	89.9		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:27	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
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J = Estimated Value
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 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-39-3	Barium	163		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-43-9	Cadmium	0.94	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-47-3	Chromium	4.47	J	1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-48-4	Cobalt	1.38	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-02-0	Nickel	21.5		1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-09-7	Potassium	29300		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-22-4	Silver	1.14	JN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-23-5	Sodium	292000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-66-6	Zinc	59.4	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	13700	1	18.5		50.0	ug/L	10/26/24 09:40	10/29/24 16:35	SW6010	SW3010
7439-96-5	Manganese	1220	1	1.46		10.0	ug/L	10/26/24 09:40	10/29/24 16:35	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-39-3	Barium	140		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-43-9	Cadmium	0.49	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-47-3	Chromium	5.02		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-48-4	Cobalt	1.26	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-02-0	Nickel	5.61	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-09-7	Potassium	22000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-23-5	Sodium	175000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-66-6	Zinc	20.8	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
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 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	3060		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:44	SW6010	SW3010
7439-96-5	Manganese	513		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-39-3	Barium	142		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-43-9	Cadmium	0.54	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-47-3	Chromium	8.40		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-48-4	Cobalt	1.42	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-02-0	Nickel	7.38	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-09-7	Potassium	22900		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-23-5	Sodium	181000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-66-6	Zinc	21.4	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	2550	1	18.5		50.0	ug/L	10/26/24 09:40	10/29/24 17:05	SW6010	SW3010
7439-96-5	Manganese	432	1	1.46		10.0	ug/L	10/26/24 09:40	10/29/24 17:05	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548
Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Antimony	982	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Arsenic	950	1000	95	90 - 110	P	10/29/2024	11:59	LB133198
	Barium	474	520	91	90 - 110	P	10/29/2024	11:59	LB133198
	Beryllium	470	510	92	90 - 110	P	10/29/2024	11:59	LB133198
	Cadmium	478	510	94	90 - 110	P	10/29/2024	11:59	LB133198
	Chromium	533	520	102	90 - 110	P	10/29/2024	11:59	LB133198
	Cobalt	511	520	98	90 - 110	P	10/29/2024	11:59	LB133198
	Copper	525	510	103	90 - 110	P	10/29/2024	11:59	LB133198
	Iron	10300	10000	102	90 - 110	P	10/29/2024	11:59	LB133198
	Lead	958	1000	96	90 - 110	P	10/29/2024	11:59	LB133198
	Manganese	478	520	92	90 - 110	P	10/29/2024	11:59	LB133198
	Nickel	514	530	97	90 - 110	P	10/29/2024	11:59	LB133198
	Potassium	10200	9900	103	90 - 110	P	10/29/2024	11:59	LB133198
	Selenium	979	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Silver	260	250	104	90 - 110	P	10/29/2024	11:59	LB133198
	Sodium	9770	10000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Thallium	1000	1000	100	90 - 110	P	10/29/2024	11:59	LB133198
	Vanadium	461	500	92	90 - 110	P	10/29/2024	11:59	LB133198
	Zinc	1040	1000	104	90 - 110	P	10/29/2024	11:59	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Antimony	50.1	50.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Arsenic	19.0	20.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Barium	94.2	100	94	80 - 120	P	10/29/2024	12:31	LB133198
	Beryllium	5.69	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Cadmium	5.68	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Chromium	10.2	10.0	102	80 - 120	P	10/29/2024	12:31	LB133198
	Cobalt	30.2	30.0	101	80 - 120	P	10/29/2024	12:31	LB133198
	Copper	21.7	20.0	108	80 - 120	P	10/29/2024	12:31	LB133198
	Iron	105	100	105	80 - 120	P	10/29/2024	12:31	LB133198
	Lead	9.73	12.0	81	80 - 120	P	10/29/2024	12:31	LB133198
	Manganese	19.6	20.0	98	80 - 120	P	10/29/2024	12:31	LB133198
	Nickel	40.0	40.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Potassium	1890	2000	95	80 - 120	P	10/29/2024	12:31	LB133198
	Selenium	20.1	20.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Silver	11.2	10.0	112	80 - 120	P	10/29/2024	12:31	LB133198
	Sodium	1800	2000	90	80 - 120	P	10/29/2024	12:31	LB133198
	Thallium	36.2	40.0	91	80 - 120	P	10/29/2024	12:31	LB133198
	Vanadium	37.8	40.0	94	80 - 120	P	10/29/2024	12:31	LB133198
	Zinc	38.9	40.0	97	80 - 120	P	10/29/2024	12:31	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Antimony	4940	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Arsenic	4910	5000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Barium	9460	10000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Beryllium	238	250	95	90 - 110	P	10/29/2024	13:01	LB133198
	Cadmium	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Chromium	994	1000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Cobalt	2440	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Copper	1250	1250	100	90 - 110	P	10/29/2024	13:01	LB133198
	Iron	4810	5000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Lead	4870	5000	97	90 - 110	P	10/29/2024	13:01	LB133198
	Manganese	2320	2500	93	90 - 110	P	10/29/2024	13:01	LB133198
	Nickel	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Potassium	24500	25000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Selenium	4950	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	13:01	LB133198
	Sodium	24100	25000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Thallium	4690	5000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Vanadium	2390	2500	96	90 - 110	P	10/29/2024	13:01	LB133198
	Zinc	2510	2500	100	90 - 110	P	10/29/2024	13:01	LB133198
CCV02	Antimony	4810	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Arsenic	4780	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Barium	9090	10000	91	90 - 110	P	10/29/2024	14:04	LB133198
	Beryllium	241	250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Cadmium	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Chromium	946	1000	95	90 - 110	P	10/29/2024	14:04	LB133198
	Cobalt	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Iron	4590	5000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Lead	4670	5000	93	90 - 110	P	10/29/2024	14:04	LB133198
	Manganese	2560	2500	103	90 - 110	P	10/29/2024	14:04	LB133198
	Nickel	2340	2500	94	90 - 110	P	10/29/2024	14:04	LB133198
	Potassium	23600	25000	94	90 - 110	P	10/29/2024	14:04	LB133198
	Selenium	4870	5000	97	90 - 110	P	10/29/2024	14:04	LB133198
	Silver	1170	1250	94	90 - 110	P	10/29/2024	14:04	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Sodium	23000	25000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Thallium	5060	5000	101	90 - 110	P	10/29/2024	14:04	LB133198
	Vanadium	2260	2500	90	90 - 110	P	10/29/2024	14:04	LB133198
	Zinc	2390	2500	96	90 - 110	P	10/29/2024	14:04	LB133198
CCV03	Antimony	5010	5000	100	90 - 110	P	10/29/2024	15:02	LB133198
	Arsenic	5490	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Barium	10400	10000	104	90 - 110	P	10/29/2024	15:02	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	15:02	LB133198
	Cadmium	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:02	LB133198
	Cobalt	2520	2500	101	90 - 110	P	10/29/2024	15:02	LB133198
	Copper	1130	1250	90	90 - 110	P	10/29/2024	15:02	LB133198
	Iron	5480	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Lead	4700	5000	94	90 - 110	P	10/29/2024	15:02	LB133198
	Manganese	2450	2500	98	90 - 110	P	10/29/2024	15:02	LB133198
	Nickel	2580	2500	103	90 - 110	P	10/29/2024	15:02	LB133198
	Potassium	26900	25000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Selenium	4530	5000	91	90 - 110	P	10/29/2024	15:02	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	15:02	LB133198
	Sodium	23300	25000	93	90 - 110	P	10/29/2024	15:02	LB133198
	Thallium	5410	5000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Vanadium	2650	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Zinc	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
CCV04	Antimony	4760	5000	95	90 - 110	P	10/29/2024	15:59	LB133198
	Arsenic	5440	5000	109	90 - 110	P	10/29/2024	15:59	LB133198
	Barium	10300	10000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Beryllium	225	250	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cadmium	2640	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cobalt	2480	2500	99	90 - 110	P	10/29/2024	15:59	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	15:59	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	15:59	LB133198
	Lead	4620	5000	92	90 - 110	P	10/29/2024	15:59	LB133198
	Manganese	2490	2500	100	90 - 110	P	10/29/2024	15:59	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Nickel	2540	2500	102	90 - 110	P	10/29/2024	15:59	LB133198
	Potassium	25700	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Selenium	4680	5000	94	90 - 110	P	10/29/2024	15:59	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	15:59	LB133198
	Sodium	22600	25000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Thallium	4990	5000	100	90 - 110	P	10/29/2024	15:59	LB133198
	Vanadium	2660	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Zinc	2610	2500	104	90 - 110	P	10/29/2024	15:59	LB133198
CCV05	Antimony	4760	5000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Arsenic	5450	5000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Beryllium	231	250	92	90 - 110	P	10/29/2024	16:53	LB133198
	Cadmium	2630	2500	105	90 - 110	P	10/29/2024	16:53	LB133198
	Chromium	928	1000	93	90 - 110	P	10/29/2024	16:53	LB133198
	Cobalt	2470	2500	99	90 - 110	P	10/29/2024	16:53	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	16:53	LB133198
	Iron	5380	5000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Lead	4590	5000	92	90 - 110	P	10/29/2024	16:53	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Nickel	2530	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Potassium	27200	25000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Selenium	4690	5000	94	90 - 110	P	10/29/2024	16:53	LB133198
	Silver	1140	1250	91	90 - 110	P	10/29/2024	16:53	LB133198
	Sodium	23800	25000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Thallium	5020	5000	100	90 - 110	P	10/29/2024	16:53	LB133198
	Vanadium	2710	2500	109	90 - 110	P	10/29/2024	16:53	LB133198
	Zinc	2280	2500	91	90 - 110	P	10/29/2024	16:53	LB133198
	Antimony	4670	5000	93	90 - 110	P	10/29/2024	17:53	LB133198
CCV06	Arsenic	5370	5000	107	90 - 110	P	10/29/2024	17:53	LB133198
	Barium	10600	10000	106	90 - 110	P	10/29/2024	17:53	LB133198
	Beryllium	245	250	98	90 - 110	P	10/29/2024	17:53	LB133198
	Cadmium	2600	2500	104	90 - 110	P	10/29/2024	17:53	LB133198
	Chromium	915	1000	92	90 - 110	P	10/29/2024	17:53	LB133198
	Cobalt	2430	2500	97	90 - 110	P	10/29/2024	17:53	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548
Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Copper	1200	1250	96	90 - 110	P	10/29/2024	17:53	LB133198
	Iron	5130	5000	103	90 - 110	P	10/29/2024	17:53	LB133198
	Lead	4570	5000	91	90 - 110	P	10/29/2024	17:53	LB133198
	Manganese	2400	2500	96	90 - 110	P	10/29/2024	17:53	LB133198
	Nickel	2490	2500	100	90 - 110	P	10/29/2024	17:53	LB133198
	Potassium	24700	25000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Selenium	4700	5000	94	90 - 110	P	10/29/2024	17:53	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	17:53	LB133198
	Sodium	24000	25000	96	90 - 110	P	10/29/2024	17:53	LB133198
	Thallium	5450	5000	109	90 - 110	P	10/29/2024	17:53	LB133198
	Vanadium	2570	2500	103	90 - 110	P	10/29/2024	17:53	LB133198
	Zinc	2670	2500	107	90 - 110	P	10/29/2024	17:53	LB133198
CCV07	Antimony	4930	5000	99	90 - 110	P	10/29/2024	18:20	LB133198
	Arsenic	5470	5000	109	90 - 110	P	10/29/2024	18:20	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	18:20	LB133198
	Cadmium	2320	2500	93	90 - 110	P	10/29/2024	18:20	LB133198
	Chromium	933	1000	93	90 - 110	P	10/29/2024	18:20	LB133198
	Cobalt	2280	2500	91	90 - 110	P	10/29/2024	18:20	LB133198
	Copper	1270	1250	102	90 - 110	P	10/29/2024	18:20	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Lead	4600	5000	92	90 - 110	P	10/29/2024	18:20	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	18:20	LB133198
	Nickel	2290	2500	92	90 - 110	P	10/29/2024	18:20	LB133198
	Potassium	26200	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Selenium	5390	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Silver	1130	1250	91	90 - 110	P	10/29/2024	18:20	LB133198
	Sodium	22500	25000	90	90 - 110	P	10/29/2024	18:20	LB133198
	Thallium	4880	5000	98	90 - 110	P	10/29/2024	18:20	LB133198
	Vanadium	2690	2500	108	90 - 110	P	10/29/2024	18:20	LB133198
	Zinc	2260	2500	90	90 - 110	P	10/29/2024	18:20	LB133198

Metals

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CRDL STANDARD FOR AA & ICP

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Antimony	47.7	50.0	95	40 - 160	P	10/29/2024	12:40	LB133198
	Arsenic	18.4	20.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Barium	90.0	100	90	40 - 160	P	10/29/2024	12:40	LB133198
	Beryllium	5.49	6.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Cadmium	5.32	6.0	89	40 - 160	P	10/29/2024	12:40	LB133198
	Chromium	10.2	10.0	102	40 - 160	P	10/29/2024	12:40	LB133198
	Cobalt	28.2	30.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Copper	20.6	20.0	103	40 - 160	P	10/29/2024	12:40	LB133198
	Iron	102	100	102	40 - 160	P	10/29/2024	12:40	LB133198
	Lead	9.96	12.0	83	40 - 160	P	10/29/2024	12:40	LB133198
	Manganese	18.9	20.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Nickel	37.3	40.0	93	40 - 160	P	10/29/2024	12:40	LB133198
	Potassium	1920	2000	96	40 - 160	P	10/29/2024	12:40	LB133198
	Selenium	19.2	20.0	96	40 - 160	P	10/29/2024	12:40	LB133198
	Silver	10.6	10.0	106	40 - 160	P	10/29/2024	12:40	LB133198
	Sodium	1780	2000	89	40 - 160	P	10/29/2024	12:40	LB133198
	Thallium	37.7	40.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Vanadium	36.0	40.0	90	40 - 160	P	10/29/2024	12:40	LB133198
	Zinc	38.5	40.0	96	40 - 160	P	10/29/2024	12:40	LB133198



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548
Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	12:35	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	12:35	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	12:35	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.		SDG No.: P4548							
Contract: LOCK01	Lab Code: CHEM	Case No.: P4548	SAS No.: P4548						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	13:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	13:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	13:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
CCB02	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	14:15	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	14:15	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	14:15	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
CCB03	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	15:06	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.		SDG No.: P4548							
Contract: LOCK01	Lab Code: CHEM	Case No.: P4548	SAS No.: P4548						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	15:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	15:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
CCB04	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:03	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:03	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:03	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
CCB05	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:57	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.		SDG No.: P4548							
Contract: LOCK01	Lab Code: CHEM	Case No.: P4548	SAS No.: P4548						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Barium	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:57	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:57	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
CCB06	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	17:58	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	17:58	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	17:58	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Sodium	561	+/-2000	J	2000	P	10/29/2024	17:58	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
CCB07	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	18:24	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	18:24	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	18:24	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	18:24	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198

Metals
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PREPARATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164438BL	WATER			Batch Number:	PB164438		Prep Date:	10/26/2024	
	Antimony	25.0	<25.0	U	25.0	P	10/29/2024	18:07	LB133198
	Arsenic	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Barium	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Beryllium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Cadmium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Chromium	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Cobalt	15.0	<15.0	U	15.0	P	10/29/2024	18:07	LB133198
	Copper	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Iron	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Lead	6.00	<6.00	U	6.00	P	10/29/2024	18:07	LB133198
	Manganese	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Nickel	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Potassium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Selenium	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Silver	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Sodium	386	<1000	J	1000	P	10/29/2024	18:07	LB133198
	Thallium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Vanadium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Zinc	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

Metals
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INTERFERENCE CHECK SAMPLE

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	-1.89			-50	50	10/29/2024	12:44	LB133198
	Arsenic	1.13			-20	20	10/29/2024	12:44	LB133198
	Barium	1.47	6.0	24	-94	106	10/29/2024	12:44	LB133198
	Beryllium	1.17			-6	6	10/29/2024	12:44	LB133198
	Cadmium	6.66	1.0	666	-5	7	10/29/2024	12:44	LB133198
	Chromium	57.6	52.0	111	42	62	10/29/2024	12:44	LB133198
	Cobalt	2.06			-30	30	10/29/2024	12:44	LB133198
	Copper	-5.53	2.0	276	-18	22	10/29/2024	12:44	LB133198
	Iron	102000	101000	101	85600	116500	10/29/2024	12:44	LB133198
	Lead	7.65			-12	12	10/29/2024	12:44	LB133198
	Manganese	5.46	7.0	78	-13	27	10/29/2024	12:44	LB133198
	Nickel	2.53	2.0	126	-38	42	10/29/2024	12:44	LB133198
	Potassium	-70.7			0	0	10/29/2024	12:44	LB133198
	Selenium	-10.9			-20	20	10/29/2024	12:44	LB133198
	Silver	3.62			-10	10	10/29/2024	12:44	LB133198
	Sodium	-37.1			0	0	10/29/2024	12:44	LB133198
	Thallium	5.74			-40	40	10/29/2024	12:44	LB133198
	Vanadium	4.51			-40	40	10/29/2024	12:44	LB133198
	Zinc	-0.39			-40	40	10/29/2024	12:44	LB133198
ICSAB01	Antimony	618	618	100	525	711	10/29/2024	12:48	LB133198
	Arsenic	108	104	104	88.4	120	10/29/2024	12:48	LB133198
	Barium	470	537	88	437	637	10/29/2024	12:48	LB133198
	Beryllium	469	495	95	420	570	10/29/2024	12:48	LB133198
	Cadmium	970	972	100	826	1120	10/29/2024	12:48	LB133198
	Chromium	573	542	106	460	624	10/29/2024	12:48	LB133198
	Cobalt	516	476	108	404	548	10/29/2024	12:48	LB133198
	Copper	496	511	97	434	588	10/29/2024	12:48	LB133198
	Iron	100000	99300	101	84400	114500	10/29/2024	12:48	LB133198
	Lead	54.7	49.0	112	37	61	10/29/2024	12:48	LB133198
	Manganese	459	507	90	430	584	10/29/2024	12:48	LB133198
	Nickel	1020	954	107	810	1100	10/29/2024	12:48	LB133198
	Potassium	-63.3			0	0	10/29/2024	12:48	LB133198
	Selenium	38.3	46.0	83	26	66	10/29/2024	12:48	LB133198
	Silver	207	201	103	170	232	10/29/2024	12:48	LB133198
	Sodium	-27.2			0	0	10/29/2024	12:48	LB133198
	Thallium	98.7	108	91	68	148	10/29/2024	12:48	LB133198
	Vanadium	459	491	94	417	565	10/29/2024	12:48	LB133198
	Zinc	1090	952	114	809	1095	10/29/2024	12:48	LB133198



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>Lockwood, Kessler & Bartlett, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P4548</u>
contract:	<u>LOCK01</u>	lab code:	<u>CHEM</u>	case no.:	<u>P4548</u>
matrix:	<u>Water</u>	sample id:	<u>P4548-01</u>	client id:	<u>MW-1MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P4548-01MS</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	355		25.0	U	400	89		P
Arsenic	ug/L	75 - 125	391		10.0	U	400	98		P
Barium	ug/L	75 - 125	158		62.5		100	95		P
Beryllium	ug/L	75 - 125	80.7		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.7		2.09	J	100	91		P
Chromium	ug/L	75 - 125	177		1.48	J	200	88		P
Cobalt	ug/L	75 - 125	93.1		15.0	U	100	93		P
Copper	ug/L	75 - 125	138		10.0	U	150	92		P
Iron	ug/L	75 - 125	1590		42.8	J	1500	103		P
Lead	ug/L	75 - 125	388		6.00	U	500	78		P
Manganese	ug/L	75 - 125	179		86.6		100	93		P
Nickel	ug/L	75 - 125	243		6.80	J	250	95		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	804		10.0	U	1000	80		P
Silver	ug/L	75 - 125	22.5		5.00	U	37.5	60	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	862		20.0	U	1000	86		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	298		254		100	43	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Lockwood, Kessler & Bartlett, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P4548</u>
contract:	<u>LOCK01</u>	lab code:	<u>CHEM</u>	case no.:	<u>P4548</u>
matrix:	<u>Water</u>	sample id:	<u>P4548-01</u>	client id:	<u>MW-1MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P4548-01MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	367		25.0	U	400	92		P
Arsenic	ug/L	75 - 125	401		10.0	U	400	100		P
Barium	ug/L	75 - 125	161		62.5		100	99		P
Beryllium	ug/L	75 - 125	83.1		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	95.0		2.09	J	100	93		P
Chromium	ug/L	75 - 125	181		1.48	J	200	90		P
Cobalt	ug/L	75 - 125	95.5		15.0	U	100	96		P
Copper	ug/L	75 - 125	141		10.0	U	150	94		P
Iron	ug/L	75 - 125	1580		42.8	J	1500	103		P
Lead	ug/L	75 - 125	398		6.00	U	500	80		P
Manganese	ug/L	75 - 125	184		86.6		100	98		P
Nickel	ug/L	75 - 125	249		6.80	J	250	97		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	826		10.0	U	1000	83		P
Silver	ug/L	75 - 125	22.8		5.00	U	37.5	61	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	831		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	153		20.0	U	150	102		P
Zinc	ug/L	75 - 125	303		254		100	49	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>Lockwood, Kessler & Bartlett, Inc.</u>	SDG No.: <u>P4548</u>	
Contract: <u>LOCK01</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P4548</u> SAS No.: <u>P4548</u>
Matrix: <u>Water</u>	Level: <u>LOW</u>	Client ID: <u>MW-1A</u>
Sample ID: <u>P4548-01</u>	Spiked ID: <u>P4548-01A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	22.7		5.00	U	37.5	60		P
Zinc	ug/L	75 - 125	301		254		100	47		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **Level:** LOW **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Matrix: Water **Sample ID:** P4548-01 **Client ID:** MW-1DUP
Percent Solids for Sample: NA **Duplicate ID** P4548-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	62.5		65.6		5		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	2.09	J	2.18	J	4		P
Chromium	ug/L	20	1.48	J	1.64	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	42.8	J	42.0	J	2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Manganese	ug/L	20	86.6		91.1		5		P
Nickel	ug/L	20	6.80	J	7.17	J	5		P
Potassium	ug/L	20	5230		5290		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	53100		54500		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	254		262		3		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **Level:** LOW **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Matrix: Water **Sample ID:** P4548-01MS **Client ID:** MW-1MSD
Percent Solids for Sample: NA **Duplicate ID** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	355		367		3		P
Arsenic	ug/L	20	391		401		3		P
Barium	ug/L	20	158		161		2		P
Beryllium	ug/L	20	80.7		83.1		3		P
Cadmium	ug/L	20	92.7		95.0		2		P
Chromium	ug/L	20	177		181		2		P
Cobalt	ug/L	20	93.1		95.5		3		P
Copper	ug/L	20	138		141		2		P
Iron	ug/L	20	1590		1580		1		P
Lead	ug/L	20	388		398		3		P
Manganese	ug/L	20	179		184		3		P
Nickel	ug/L	20	243		249		2		P
Potassium	ug/L	20	10200		10200		0		P
Selenium	ug/L	20	804		826		3		P
Silver	ug/L	20	22.5		22.8		1		P
Sodium	ug/L	20	54400		54400		0		P
Thallium	ug/L	20	862		831		4		P
Vanadium	ug/L	20	150		153		2		P
Zinc	ug/L	20	298		303		2		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164438BS							
Antimony	ug/L	400	375		94	80 - 120	P
Arsenic	ug/L	400	397		99	80 - 120	P
Barium	ug/L	100	99.2		99	80 - 120	P
Beryllium	ug/L	100	92.9		93	80 - 120	P
Cadmium	ug/L	100	84.8		85	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	89.4		89	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Iron	ug/L	1500	1580		105	80 - 120	P
Lead	ug/L	500	426		85	80 - 120	P
Manganese	ug/L	100	101		101	80 - 120	P
Nickel	ug/L	250	225		90	80 - 120	P
Potassium	ug/L	5000	5090		102	80 - 120	P
Selenium	ug/L	1000	979		98	80 - 120	P
Silver	ug/L	37.5	33.9		90	80 - 120	P
Sodium	ug/L	1500	1380		92	80 - 120	P
Thallium	ug/L	1000	903		90	80 - 120	P
Vanadium	ug/L	150	157		105	80 - 120	P
Zinc	ug/L	100	89.1		89	80 - 120	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-1L

Lab Name: Chemtech Consulting Group

Contract: LOCK01

Lab Code: CHEM Lb No.: lb133198 Lab Sample ID : P4548-01L SDG No.: P4548

Matrix (soil/water): Water Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
		C		C			
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	62.5		49.2	J	21		P
Beryllium	3.00	U	15.0	U			P
Cadmium	2.09	J	2.11	J	1		P
Chromium	1.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	42.8	J	250	U	100.0		P
Lead	6.00	U	30.0	U			P
Manganese	86.6		92.5		7		P
Nickel	6.80	J	7.42	J	9		P
Potassium	5230		5590		7		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	53100		50900		4		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	254		204		20		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>Lockwood, Kessler & Bartlett, Inc.</u>	SDG No.:	<u>P4548</u>
Contract:	<u>LOCK01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P4548</u>
		SAS No.:	<u>P4548</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB164438							
P4548-01	MW-1	SAM	WATER	10/26/2024	50.0	25.0	
P4548-01DUP	MW-1DUP	DUP	WATER	10/26/2024	50.0	25.0	
P4548-01MS	MW-1MS	MS	WATER	10/26/2024	50.0	25.0	
P4548-01MSD	MW-1MSD	MSD	WATER	10/26/2024	50.0	25.0	
P4548-02	MW-1	SAM	WATER	10/26/2024	50.0	25.0	
P4548-03	MW-2	SAM	WATER	10/26/2024	50.0	25.0	
P4548-04	MW-2	SAM	WATER	10/26/2024	50.0	25.0	
P4548-05	MW-3	SAM	WATER	10/26/2024	50.0	25.0	
P4548-06	MW-3	SAM	WATER	10/26/2024	50.0	25.0	
P4548-07	MW-4	SAM	WATER	10/26/2024	50.0	25.0	
P4548-08	MW-4	SAM	WATER	10/26/2024	50.0	25.0	
PB164438BL	PB164438BL	MB	WATER	10/26/2024	50.0	25.0	
PB164438BS	PB164438BS	LCS	WATER	10/26/2024	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Lockwood, Kessler & Bartlett, Inc.

Contract: LOCK01

Lab code: CHEM **Case no.:** P4548 **Sas no.:** P4548

Sdg no.: P4548

Instrument id number: **Method:**
Run number: LB133198

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1138	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1142	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1146	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1150	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1154	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1159	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1231	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1235	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1240	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1244	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1248	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1301	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1306	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1404	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1415	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1502	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1506	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01	MW-1	1	1551	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01DUP	MW-1DUP	1	1555	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1559	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1603	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01L	MW-1L	5	1611	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MS	MW-1MS	1	1615	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MSD	MW-1MSD	1	1619	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01A	MW-1A	1	1623	Ag,Zn
P4548-02	MW-1	1	1627	Fe,Mn
P4548-03	MW-2	1	1631	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-04	MW-2	1	1635	Fe,Mn
P4548-05	MW-3	1	1640	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-06	MW-3	1	1644	Fe,Mn
P4548-07	MW-4	1	1649	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1653	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1657	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-08	MW-4	1	1705	Fe,Mn
CCV06	CCV06	1	1753	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1758	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BL	PB164438BL	1	1807	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BS	PB164438BS	1	1816	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1820	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1824	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn

LAB CHRONICLE

OrderID:	P4548	OrderDate:	10/24/2024 3:18:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2024
Contact:	John Gerlach	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4548-01	MW-1	WATER			10/23/24 10:05			10/24/24
			Alkalinity	SM2320 B			11/04/24 10:25	
			Ammonia	SM4500-NH3		10/28/24	10/28/24 13:42	
			Anions Group1	300.0			10/25/24 09:35	
			BOD5	SM5210 B			10/25/24 09:30	
			pH	9040C			10/25/24 10:10	
			TDS	SM2540 C			10/25/24 12:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		10/28/24	10/28/24 16:20	
			Total Nitrogen	Cal			10/28/24 16:20	
			TSS	SM2540 D			10/28/24 09:00	
			Turbidity	SM2130 B			10/25/24 09:26	
P4548-01DL	MW-1DL	WATER			10/23/24 10:05			10/24/24
			Anions Group1	300.0			10/25/24 12:06	
P4548-03	MW-2	WATER			10/23/24 12:15			10/24/24

LAB CHRONICLE

Alkalinity	SM2320 B		11/04/24
			10:35
Ammonia	SM4500-NH3	10/28/24	10/28/24
			13:53
Anions Group1	300.0		10/25/24
			11:23
BOD5	SM5210 B		10/25/24
			09:30
pH	9040C		10/25/24
			10:15
TDS	SM2540 C		10/25/24
			12:30
TKN	SM4500-N	10/28/24	10/28/24
	Org C-11 plus		16:30
	NH3 B plus		
	G-11		
Total Nitrogen	Cal		10/28/24
			16:57
TSS	SM2540 D		10/28/24
			09:00
Turbidity	SM2130 B		10/25/24
			09:34

P4548-03DL	MW-2DL	WATER	10/23/24	10/24/24
			12:15	

Ammonia	SM4500-NH3	10/28/24	10/28/24
			14:41
Anions Group1	300.0		10/25/24
			14:15
TKN	SM4500-N	10/28/24	10/28/24
	Org C-11 plus		16:57
	NH3 B plus		
	G-11		

P4548-03DL	MW-2DL2	WATER	10/23/24	10/24/24
2			12:15	

Anions Group1	300.0		10/25/24
			12:28

P4548-05	MW-3	WATER	10/23/24	10/24/24
			11:00	

LAB CHRONICLE

Alkalinity	SM2320 B		11/04/24
			10:41
Ammonia	SM4500-NH3	10/28/24	10/28/24
			13:53
Anions Group1	300.0		10/25/24
			10:40
BOD5	SM5210 B		10/25/24
			09:30
pH	9040C		10/25/24
			10:17
TDS	SM2540 C		10/25/24
			12:30
TKN	SM4500-N	10/28/24	10/28/24
	Org C-11 plus		16:30
	NH3 B plus		
	G-11		
Total Nitrogen	Cal		10/28/24
			16:30
TSS	SM2540 D		10/28/24
			09:00
Turbidity	SM2130 B		10/25/24
			09:38

P4548-05DL

MW-3DL

WATER

**10/23/24
11:00**

10/24/24

Ammonia	SM4500-NH3	10/28/24	10/28/24
			14:41
Anions Group1	300.0		10/25/24
			13:32

P4548-07

MW-4

WATER

**10/23/24
11:30**

10/24/24

Alkalinity	SM2320 B		11/04/24
			10:46
Ammonia	SM4500-NH3	10/28/24	10/28/24
			13:53
Anions Group1	300.0		10/25/24
			11:02
BOD5	SM5210 B		10/25/24
			09:30

LAB CHRONICLE

pH	9040C	10/25/24
		10:19
TDS	SM2540 C	10/25/24
		12:30
TKN	SM4500-N	10/28/24
	Org C-11 plus	10/28/24
	NH3 B plus	16:30
	G-11	
Total Nitrogen	Cal	10/28/24
		16:30
TSS	SM2540 D	10/28/24
		09:00
Turbidity	SM2130 B	10/25/24
		09:42

P4548-07DL

MW-4DL

WATER

**10/23/24
11:30**

10/24/24

Ammonia	SM4500-NH3	10/28/24	10/28/24
			14:41
Anions Group1	300.0	10/25/24	13:54



SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 10:05
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	49.5		1	1.00	2.00	mg/L		11/04/24 10:25	SM 2320 B-11
Ammonia as N	0.045	U	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:42	SM 4500-NH3 B plus G-11
Chloride	146	OR	1	0.011	0.60	mg/L		10/25/24 09:35	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 09:35	300.0
Nitrate	1.30		1	0.0034	0.50	mg/L		10/25/24 09:35	300.0
Sulfate	31.6		1	0.032	3.00	mg/L		10/25/24 09:35	300.0
Nitrate+Nitrite	1.30		1	0.010	1.10	mg/L		10/25/24 09:35	300.0
BOD5	0.17	U	1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	5.81	H	1	0	0	pH		10/25/24 10:10	9040C
TDS	422		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	0.18	U	1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:20	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	1.30		1	0.31	1.30	mg/L		10/28/24 16:20	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	1.00	U	1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	0.38	J	1	0.075	1.00	NTU		10/25/24 09:26	SM 2130 B-11

Comments: The alkalinity to pH 4.29=49.5 mg CaCO3/L, pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 10:05
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1DL	SDG No.:	P4548
Lab Sample ID:	P4548-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	110	D	50	0.55	30.0	mg/L		10/25/24 12:06	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 12:15
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	437		1	1.00	2.00	mg/L		11/04/24 10:35	SM 2320 B-11
Ammonia as N	10.1	OR	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:53	SM 4500-NH3 B plus G-11
Chloride	524	OR	1	0.011	0.60	mg/L		10/25/24 11:23	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 11:23	300.0
Nitrate	0.088	J	1	0.0034	0.50	mg/L		10/25/24 11:23	300.0
Sulfate	41.8	OR	1	0.032	3.00	mg/L		10/25/24 11:23	300.0
Nitrate+Nitrite	0.090	J	1	0.010	1.10	mg/L		10/25/24 11:23	300.0
BOD5	10.5		1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	6.72	H	1	0	0	pH		10/25/24 10:15	9040C
TDS	1150		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	11.1	OR	1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:30	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	11.6		1	0.31	1.30	mg/L		10/28/24 16:57	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	23.5		1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	135		1	0.075	1.00	NTU		10/25/24 09:34	SM 2130 B-11

Comments: The alkalinity to pH 4.40=437 mg CaCO3/L, pH result reported at temperature 20.1 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 12:15
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2DL	SDG No.:	P4548
Lab Sample ID:	P4548-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	12.0	D	10	0.45	1.00	mg/L	10/28/24 08:40	10/28/24 14:41	SM 4500-NH3 B plus G-11
Chloride	493	OR	2	0.022	1.20	mg/L		10/25/24 14:15	300.0
Sulfate	41.2	D	2	0.064	6.00	mg/L		10/25/24 14:15	300.0
TKN	11.5	D	2	0.36	1.00	mg/L	10/28/24 09:30	10/28/24 16:57	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 12:15
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2DL2	SDG No.:	P4548
Lab Sample ID:	P4548-03DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	350	D	100	1.10	60.0	mg/L		10/25/24 12:28	300.0

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:00
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	368		1	1.00	2.00	mg/L		11/04/24 10:41	SM 2320 B-11
Ammonia as N	5.40	OR	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:53	SM 4500-NH3 B plus G-11
Chloride	330	OR	1	0.011	0.60	mg/L		10/25/24 10:40	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 10:40	300.0
Nitrate	2.20		1	0.0034	0.50	mg/L		10/25/24 10:40	300.0
Sulfate	15.2		1	0.032	3.00	mg/L		10/25/24 10:40	300.0
Nitrate+Nitrite	2.20		1	0.010	1.10	mg/L		10/25/24 10:40	300.0
BOD5	9.51		1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	6.73	H	1	0	0	pH		10/25/24 10:17	9040C
TDS	774		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	6.00		1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:30	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	8.20		1	0.31	1.30	mg/L		10/28/24 16:30	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	5.30		1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	20.0		1	0.075	1.00	NTU		10/25/24 09:38	SM 2130 B-11

Comments: The alkalinity to pH 4.38=368 mg CaCO3/L, pH result reported at temperature 20.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:00
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3DL	SDG No.:	P4548
Lab Sample ID:	P4548-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.90	D	5	0.23	0.50	mg/L	10/28/24 08:40	10/28/24 14:41	SM 4500-NH3 B plus G-11
Chloride	230	D	100	1.10	60.0	mg/L		10/25/24 13:32	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:30
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	348		1	1.00	2.00	mg/L		11/04/24 10:46	SM 2320 B-11
Ammonia as N	5.30	OR	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:53	SM 4500-NH3 B plus G-11
Chloride	331	OR	1	0.011	0.60	mg/L		10/25/24 11:02	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 11:02	300.0
Nitrate	2.20		1	0.0034	0.50	mg/L		10/25/24 11:02	300.0
Sulfate	15.3		1	0.032	3.00	mg/L		10/25/24 11:02	300.0
Nitrate+Nitrite	2.20		1	0.010	1.10	mg/L		10/25/24 11:02	300.0
BOD5	10.9		1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	6.75	H	1	0	0	pH		10/25/24 10:19	9040C
TDS	822		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	5.70		1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:30	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	7.90		1	0.31	1.30	mg/L		10/28/24 16:30	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	5.60		1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	11.4		1	0.075	1.00	NTU		10/25/24 09:42	SM 2130 B-11

Comments: The alkalinity to pH 4.27=348 mg CaCO3/L, pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:30
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4DL	SDG No.:	P4548
Lab Sample ID:	P4548-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.80	D	5	0.23	0.50	mg/L	10/28/24 08:40	10/28/24 14:41	SM 4500-NH3 B plus G-11
Chloride	238	D	100	1.10	60.0	mg/L		10/25/24 13:54	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133119

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10	10	100	90-110	10/16/2024
Chloride	mg/L	3	3	100	90-110	10/16/2024
Fluoride	mg/L	2	2	100	90-110	10/16/2024
Nitrite	mg/L	3	3	100	90-110	10/16/2024
Nitrate	mg/L	2.5	2.5	100	90-110	10/16/2024
Sulfate	mg/L	14.9	15	99	90-110	10/16/2024
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/16/2024
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	10/25/2024
Chloride	mg/L	3.2	3	107	90-110	10/25/2024
Fluoride	mg/L	2.1	2	105	90-110	10/25/2024
Nitrite	mg/L	3.1	3	103	90-110	10/25/2024
Nitrate	mg/L	2.6	2.5	104	90-110	10/25/2024
Sulfate	mg/L	15.7	15	105	90-110	10/25/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	10/25/2024
Sample ID: CCV2						
Bromide	mg/L	10.6	10	106	90-110	10/25/2024
Chloride	mg/L	3.2	3	107	90-110	10/25/2024
Fluoride	mg/L	2.1	2	105	90-110	10/25/2024
Nitrite	mg/L	3.2	3	107	90-110	10/25/2024
Nitrate	mg/L	2.6	2.5	104	90-110	10/25/2024
Sulfate	mg/L	15.7	15	105	90-110	10/25/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	10/25/2024
Sample ID: CCV3						
Bromide	mg/L	10.6	10	106	90-110	10/25/2024
Chloride	mg/L	3.2	3	107	90-110	10/25/2024
Fluoride	mg/L	2.1	2	105	90-110	10/25/2024
Nitrite	mg/L	3.2	3	107	90-110	10/25/2024
Nitrate	mg/L	2.6	2.5	104	90-110	10/25/2024
Sulfate	mg/L	15.8	15	105	90-110	10/25/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	10/25/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133120

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Turbidity	ICV	NTU	9.841	10	98	90-110	10/25/2024
Sample ID: Turbidity	CCV1	NTU	9.445	10	94	90-110	10/25/2024
Sample ID: Turbidity	CCV2	NTU	9.487	10	95	90-110	10/25/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133123

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.00	7	100	90-110	10/25/2024
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	10/25/2024
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	10/25/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133173

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1.1	1	110	90-110	10/28/2024
Sample ID: CCV1 Ammonia as N	mg/L	0.99	1	99	90-110	10/28/2024
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	10/28/2024
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	10/28/2024
Sample ID: CCV4 Ammonia as N	mg/L	1.1	1	110	90-110	10/28/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133176

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	5	5	100	90-110	10/28/2024
Sample ID: CCV1 TKN	mg/L	5	5	100	90-110	10/28/2024
Sample ID: CCV2 TKN	mg/L	5.1	5	102	90-110	10/28/2024
Sample ID: CCV3 TKN	mg/L	5.3	5	106	90-110	10/28/2024
Sample ID: CCV4 TKN	mg/L	5.4	5	108	90-110	10/28/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133119

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.	SDG No.: P4548
Project: Ansonia Landfill 2024	RunNo.: LB133120

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Turbidity	NTU	< 0.5000	0.5000	U	0.075	1.0	10/25/2024
Sample ID: CCB1 Turbidity	NTU	< 0.5000	0.5000	U	0.075	1	10/25/2024
Sample ID: CCB2 Turbidity	NTU	< 0.5000	0.5000	U	0.075	1	10/25/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133173

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133176

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB4 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024

Preparation Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB133119BLW						
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024
Sample ID:	LB133120BL						
Turbidity	NTU	< 0.5000	0.5000	U	0.075	1.0	10/25/2024
Sample ID:	LB133122BL						
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	10/25/2024
Sample ID:	LB133165BL						
TSS	mg/L	< 2.0000	2.0000	U	1	4	10/28/2024
Sample ID:	LB133166BL						
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	10/25/2024
Sample ID:	LB133279BLW						
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	11/04/2024
Sample ID:	PB164383BL						
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID:	PB164408BL						
TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.90		0.034	U	10	1	99		10/25/2024
Ammonia as N	mg/L	75-125	0.98		0.045	U	1	1	98		10/28/2024
Chloride	mg/L	80-120	143	OR	146	OR	3	1	-100	*	10/25/2024
Fluoride	mg/L	80-120	2.10		0.13	J	2	1	98		10/25/2024
TKN	mg/L	75-125	4.80		0.18	U	5	1	96		10/28/2024
Nitrite	mg/L	80-120	3.00		0.011	U	3	1	100		10/25/2024
Nitrate	mg/L	80-120	3.80		1.30		2.5	1	100		10/25/2024
Sulfate	mg/L	80-120	45.2	OR	31.6		15	1	91		10/25/2024
Orthophosphate as P	mg/L	80-120	4.80		0.079	U	5	1	96		10/25/2024

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.40		0.034	U	10	1	94		10/25/2024
Ammonia as N	mg/L	75-125	0.99		0.045	U	1	1	99		10/28/2024
Chloride	mg/L	80-120	143	OR	146	OR	3	1	-100	*	10/25/2024
Fluoride	mg/L	80-120	2.00		0.13	J	2	1	94		10/25/2024
TKN	mg/L	75-125	4.80		0.18	U	5	1	96		10/28/2024
Nitrite	mg/L	80-120	2.80		0.011	U	3	1	93		10/25/2024
Nitrate	mg/L	80-120	3.60		1.30		2.5	1	92		10/25/2024
Sulfate	mg/L	80-120	44.7	OR	31.6		15	1	87		10/25/2024
Orthophosphate as P	mg/L	80-120	4.50		0.079	U	5	1	90		10/25/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Turbidity	NTU	+/-20	0.38	J	0.38	J	1	1.59		10/25/2024
BOD5	mg/L	+/-20	0.17	U	0.17	U	1	0		10/25/2024
Ammonia as N	mg/L	+/-20	0.045	U	0.045	U	1	0		10/28/2024
TKN	mg/L	+/-20	0.18	U	0.18	U	1	0		10/28/2024
Alkalinity	mg/L	+/-20	49.5		48.7		1	2		11/04/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Chloride	mg/L	+/-20	143	OR	143	OR	1	0		10/25/2024
Sulfate	mg/L	+/-20	45.2	OR	44.7	OR	1	1		10/25/2024
Bromide	mg/L	+/-20	9.90		9.40		1	5		10/25/2024
Fluoride	mg/L	+/-20	2.10		2.00		1	5		10/25/2024
Nitrate	mg/L	+/-20	3.80		3.60		1	5		10/25/2024
Orthophosphate as P	mg/L	+/-20	4.80		4.50		1	6		10/25/2024
Nitrite	mg/L	+/-20	3.00		2.80		1	7		10/25/2024
Ammonia as N	mg/L	+/-20	0.98		0.99		1	1		10/28/2024
TKN	mg/L	+/-20	4.80		4.80		1	0		10/28/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-07
Client ID:	MW-4DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	5.60		5.70		1	1.77		10/28/2024
TDS	mg/L	+/-5	822		840		1	2.17		10/25/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4549-04
Client ID:	TT-069-IDWGW-20241024DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
pH	pH	+/-20	7.28		7.29		1	0.14		10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133119

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133119BSW							
Bromide	mg/L	10	10.6		106	1	90-110	10/25/2024
Chloride	mg/L	3	3.20		107	1	90-110	10/25/2024
Fluoride	mg/L	2	2.10		105	1	90-110	10/25/2024
Nitrite	mg/L	3	3.20		107	1	90-110	10/25/2024
Nitrate	mg/L	2.5	2.60		104	1	90-110	10/25/2024
Sulfate	mg/L	15	15.9		106	1	90-110	10/25/2024
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133122

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133122BS							
BOD5	mg/L	198	182		92	1	84.6-115.4	10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133165

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133165BS							
TSS	mg/L	550	520		94	1	90-110	10/28/2024

Laboratory Control Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Run No.:	LB133166

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133166BS							
TDS	mg/L	100	94.0		94	1	90-110	10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133279

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133279BSW							
Alkalinity	mg/L	50	46.0		92	1	80-120	11/04/2024

Laboratory Control Sample Summary

Client:

Lockwood, Kessler & Bartlett, Inc.

SDG No.:

P4548

Project:

Ansonia Landfill 2024

Run No.:

LB133173

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164383BS							
Ammonia as N	mg/L	1	1.00		100	1	90-110	10/28/2024

Laboratory Control Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Run No.:	LB133176

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164408BS							
TKN	mg/L	5	4.90		98	1	90-110	10/28/2024



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Bottle # P4548
QUOTE NO. B2410024
COC Number 2042090

8
8.1

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: LKB, INC.
ADDRESS: 1 AERIAL WAY
CITY: SYOSSET STATE: NY ZIP: 11791
ATTENTION: JOHN GERLACH
PHONE: 516-210-8931 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ANSONIA LANDFILL
PROJECT NO.: 0774-08 LOCATION: CT
PROJECT MANAGER: JOHN GERLACH
e-mail: jgerlach@LKBINC.COM
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: LKB, INC. PO#: NA for Lab
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: SHARON F. PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): STD. DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☒ EDD FORMAT NYS DEC

VOCs SEE BOTTLE ORDER # B2410024

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS			
			COMP	GRAB	DATE	TIME		A/E	E + Others	As	Appropriate	← Specify Preservatives								
												A-HCl	D-NaOH	B-HNO3	E-ICE	C-H2SO4	F-OTHER			
1.	MW-1	GW		X	10/23/24	10:05A	10		X									} SAMPLES FOR DISS. Fe + Mn FILTERED IN FIELD.		
2.	MW-2			X		12:15P	10		X											
3.	MW-3			X		11:00A	10		X											
4.	MW-4			X		11:30A	10		X											
5.	TRIP BLANK	DI		X				2	X											
6.																				
7.																				
8.																				
9.																				
10.																				

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

RELINQUISHED BY SAMPLER:	DATE/TIME: 7:50A	RECEIVED BY: 1024-2024	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.02 °C
1. [Signature]	10/24/24	1. [Signature] 1340	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1905	RECEIVED BY:	
3. [Signature]	10-24-2024	3. [Signature]	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

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

Order ID : P4548	LOCK01	Order Date : 10/24/2024 3:18:00 PM	Project Mgr :
Client Name : Lockwood, Kessler & Barth		Project Name : Ansonia Landfill 2024	Report Type : Level 2
Client Contact : John Gerlach		Receive Date Time : 10/23/2024 12:00:00 AM 24	EDD Type : EXCEL NOCLEANUP
Invoice Name : Lockwood, Kessler & Barth		Purchase Order : 19:05	Hard Copy Date :
Invoice Contact : John Gerlach			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4548-01	MW-1	Water	10/23/2024	10:05	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-03	MW-2	Water	10/23/2024	12:15	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-05	MW-3	Water	10/23/2024	11:00	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-07	MW-4	Water	10/23/2024	11:30	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-09	TRIP BLANK	Water	10/23/2024	00:00	VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 10/25/24 0900

Received By :

Date / Time : 10/25/24 0900 Ref # 4

Storage Area : VOA Refridgerator Room