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

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS

PROJECT NAME : INDUSTRIAL WASTEWATER DISCHARGE PERMIT - FALL 202

NEW YORK CITY DEP OF ENVIRONMENTAL PROTECTION/BWS

59-17 Junction Blvd.; 17th floor

Corona, NY - 11368

Phone No: 7186966612

ORDER ID : P5051

ATTENTION : Nicholas Prokopowicz

Laboratory Certification ID # 20012

Table Of Contents for P5051

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Cover Page

Order ID : P5051

Project ID : Industrial Wastewater Discharge Permit - Fall 2024

Client : New York City DEP of Environmental Protection/BWS

Lab Sample Number	Client Sample Number
P5051-01	14B-1
P5051-02	14B-2
P5051-03	14B-3
P5051-04	14B-4
P5051-05	P5051-04MS
P5051-06	P5051-04MSD
P5051-07	14B-(1-4)-COMP

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 : _____

Date: 12/19/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

New York City DEP of Environmental Protection/BWS
Project Name: Industrial Wastewater Discharge Permit - Fall 2024
Project # N/A
Chemtech Project # P5051
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
7 Water samples were received on 12/02/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Cyanide-Amenable, Field pH, Field Temperature, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, Non-Polar Material, TSS and VOCMS Group1. This data package contains results for VOCMS Group1.

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Samples 14B-1, 14B-2, 14B-3 and 14B-4 analyzed with 5x dilution due to samples having much sediment and not allowing straight run analysis.

E. Additional Comments:
“As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”

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

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

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Signature_____

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CASE NARRATIVE

New York City DEP of Environmental Protection/BWS
Project Name: Industrial Wastewater Discharge Permit - Fall 2024
Project # N/A
Chemtech Project # P5051
Test Name: Metals ICP-Group1,Mercury

A. Number of Samples and Date of Receipt:
7 Water samples were received on 12/02/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Cyanide-Amenable, Field pH, Field Temperature, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, Non-Polar Material, TSS and VOCMS Group1. This data package contains results for Metals ICP-Group1,Mercury.

C. Analytical Techniques:
The analysis and digestion of Metals ICP-Group1 was based on 200.7 and The analysis and digestion of Mercury was based on 245.1.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met criteria for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (14B-(1-4)-COMPMS) analysis met criteria for all samples except for Antimony due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (14B-(1-4)-COMPMSD) analysis met criteria for all samples except for Antimony 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 (14B-(1-4)-COMPL) met criteria for all samples except for Copper and Sodium due to sample matrix interference.

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_____

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CASE NARRATIVE

New York City DEP of Environmental Protection/BWS
Project Name: Industrial Wastewater Discharge Permit - Fall 2024
Project # N/A
Chemtech Project # P5051
Test Name: Hexavalent Chromium,Non-Polar Material,Cyanide,Field pH,Cyanide-Amenable,Field Temperature,TSS

A. Number of Samples and Date of Receipt:
7 Water samples were received on 12/02/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Cyanide-Amenable, Field pH, Field Temperature, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, Non-Polar Material, TSS and VOCMS Group1. This data package contains results for Hexavalent Chromium,Non-Polar Material,Cyanide,Field pH,Cyanide-Amenable,Field Temperature,TSS.

C. Analytical Techniques:
The analysis of Non-Polar Material was based on method 1664A, The analysis of TSS was based on method SM2540 D, The analysis of Field Temperature was based on method SM2550-B, The analysis of Hexavalent Chromium was based on method SM3500-Cr B, The analysis of Cyanide-Amenable was based on method SM4500-CN B,G Cyanide-Amenable, The analysis of Cyanide was based on method SM4500-CN C,E and The analysis of Field pH was based on method SM4500-H B.

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 analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
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_____

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

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5051**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **12/19/2024**

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LAB CHRONICLE

OrderID:	P5051	**OrderDate:**	12/2/2024 2:00:00 PM
Client:	New York City DEP of Environmental Protection/BWS	**Project:**	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5051-01	**14B-1**	**Water**			**12/02/24**			**12/02/24**
			VOCMS Group1	624.1			12/06/24	
P5051-02	**14B-2**	**Water**			**12/02/24**			**12/02/24**
			VOCMS Group1	624.1			12/06/24	
P5051-03	**14B-3**	**Water**			**12/02/24**			**12/02/24**
			VOCMS Group1	624.1			12/06/24	
P5051-04	**14B-4**	**Water**			**12/02/24**			**12/02/24**
			VOCMS Group1	624.1			12/06/24	

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Hit Summary Sheet
SW-846

SDG No.: P5051

Client: New York City DEP of Environmental Protection/BW

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0				

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-1	SDG No.:	P5051
Lab Sample ID:	P5051-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085127.D	5		12/06/24 15:15	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-1	SDG No.:	P5051
Lab Sample ID:	P5051-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085127.D	5		12/06/24 15:15	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.8		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.7		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.0		63 - 112	83%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	37200	7.812			
540-36-3	1,4-Difluorobenzene	189000	9.1			
3114-55-4	Chlorobenzene-d5	171000	11.865			

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-1	SDG No.:	P5051
Lab Sample ID:	P5051-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085127.D	5		12/06/24 15:15	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-2	SDG No.:	P5051
Lab Sample ID:	P5051-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085128.D	5		12/06/24 15:39	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-2	SDG No.:	P5051
Lab Sample ID:	P5051-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085128.D	5		12/06/24 15:39	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.5		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	29.1		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.7		63 - 112	79%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28500	7.818			
540-36-3	1,4-Difluorobenzene	143000	9.1			
3114-55-4	Chlorobenzene-d5	126000	11.865			

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-2	SDG No.:	P5051
Lab Sample ID:	P5051-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085128.D	5		12/06/24 15:39	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-3	SDG No.:	P5051
Lab Sample ID:	P5051-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085129.D	5		12/06/24 16:03	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-3	SDG No.:	P5051
Lab Sample ID:	P5051-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085129.D	5		12/06/24 16:03	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.6		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.6		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.8		63 - 112	79%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	26000	7.812			
540-36-3	1,4-Difluorobenzene	125000	9.1			
3114-55-4	Chlorobenzene-d5	113000	11.865			

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-3	SDG No.:	P5051
Lab Sample ID:	P5051-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085129.D	5		12/06/24 16:03	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-4	SDG No.:	P5051
Lab Sample ID:	P5051-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085130.D	5		12/06/24 16:27	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-4	SDG No.:	P5051
Lab Sample ID:	P5051-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085130.D	5		12/06/24 16:27	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.9		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.7		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.8		63 - 112	79%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27000	7.812			
540-36-3	1,4-Difluorobenzene	137000	9.1			
3114-55-4	Chlorobenzene-d5	124000	11.865			

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-4	SDG No.:	P5051
Lab Sample ID:	P5051-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085130.D	5		12/06/24 16:27	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P5051

Client: New York City DEP of Environmental Protection/BWS

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5051-01	14B-1	1,2-Dichloroethane-d4	30	29.8	99	91	110
		Toluene-d8	30	28.7	96	91	112
		4-Bromofluorobenzene	30	25.0	83	63	112
P5051-02	14B-2	1,2-Dichloroethane-d4	30	30.5	102	91	110
		Toluene-d8	30	29.1	97	91	112
		4-Bromofluorobenzene	30	23.7	79	63	112
P5051-03	14B-3	1,2-Dichloroethane-d4	30	29.6	99	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	23.8	79	63	112
P5051-04	14B-4	1,2-Dichloroethane-d4	30	30.9	103	91	110
		Toluene-d8	30	28.7	96	91	112
		4-Bromofluorobenzene	30	23.8	79	63	112
VN1206WBL01	VN1206WBL01	1,2-Dichloroethane-d4	30	30.7	102	91	110
		Toluene-d8	30	29.0	97	91	112
		4-Bromofluorobenzene	30	24.3	81	63	112
VN1206WBS01	VN1206WBS01	1,2-Dichloroethane-d4	30	30.1	100	91	110
		Toluene-d8	30	29.7	99	91	112
		4-Bromofluorobenzene	30	30.0	100	63	112
VN1206WBSD0	VN1206WBSD01	1,2-Dichloroethane-d4	30	30.8	103	91	110
		Toluene-d8	30	29.6	99	91	112
		4-Bromofluorobenzene	30	29.6	99	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5051

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1 **Datafile :** VN085124.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1206WBS01	Dichlorodifluoromethane	20	20.4	ug/L	102			72	118	
	Chloromethane	20	20.6	ug/L	103			1	205	
	Vinyl Chloride	20	19.6	ug/L	98			5	195	
	Bromomethane	20	21.2	ug/L	106			15	185	
	Chloroethane	20	19.8	ug/L	99			40	160	
	Trichlorofluoromethane	20	20.4	ug/L	102			50	150	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101			64	127	
	1,1-Dichloroethene	20	19.8	ug/L	99			50	150	
	Acetone	100	110	ug/L	110			41	148	
	Carbon disulfide	20	20.1	ug/L	101			76	107	
	Methyl tert-butyl Ether	20	20.2	ug/L	101			82	114	
	Methyl Acetate	20	20.0	ug/L	100			63	139	
	Methylene Chloride	20	19.6	ug/L	98			60	140	
	trans-1,2-Dichloroethene	20	20.0	ug/L	100			70	130	
	1,1-Dichloroethane	20	19.8	ug/L	99			70	130	
	Cyclohexane	20	20.4	ug/L	102			79	113	
	2-Butanone	100	98.6	ug/L	99			69	129	
	Carbon Tetrachloride	20	18.5	ug/L	93			70	130	
	cis-1,2-Dichloroethene	20	20.1	ug/L	101			81	112	
	Chloroform	20	20.1	ug/L	101			70	135	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			70	130	
	Methylcyclohexane	20	19.3	ug/L	97			79	112	
	Benzene	20	19.0	ug/L	95			65	135	
	1,2-Dichloroethane	20	18.7	ug/L	94			70	130	
	Trichloroethene	20	19.7	ug/L	99			65	135	
	1,2-Dichloropropane	20	19.0	ug/L	95			35	165	
	Bromodichloromethane	20	18.6	ug/L	93			65	135	
	4-Methyl-2-Pentanone	100	97.5	ug/L	98			73	131	
	Toluene	20	19.4	ug/L	97			70	130	
	t-1,3-Dichloropropene	20	19.0	ug/L	95			50	150	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			25	175	
	1,1,2-Trichloroethane	20	18.5	ug/L	93			70	130	
	2-Hexanone	100	98.4	ug/L	98			72	128	
	Dibromochloromethane	20	18.4	ug/L	92			70	135	
	1,2-Dibromoethane	20	18.7	ug/L	94			86	114	
	Tetrachloroethene	20	19.5	ug/L	98			70	130	
	Chlorobenzene	20	19.3	ug/L	97			65	135	
	Ethyl Benzene	20	19.4	ug/L	97			60	140	
	m/p-Xylenes	40	40.0	ug/L	100			87	111	
	o-Xylene	20	20.5	ug/L	103			87	111	
	Styrene	20	20.3	ug/L	102			85	106	
	Bromoform	20	18.1	ug/L	91			70	130	
	Isopropylbenzene	20	19.9	ug/L	100			86	112	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			60	140	
	1,3,5-Trimethylbenzene	20	19.9	ug/L	100			66	139	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			70	130	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			65	135	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			65	135	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5051

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1 **Datafile :** VN085124.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1206WBS01	1,2-Dibromo-3-Chloropropane	20	18.8	ug/L	94			69	122	
	1,2,4-Trichlorobenzene	20	20.5	ug/L	103			61	118	
	1,2,3-Trichlorobenzene	20	20.5	ug/L	103			38	159	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5051

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1 **Datafile :** VN085125.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1206WBSD01	Dichlorodifluoromethane	20	19.3	ug/L	97	5		72	118	20
	Chloromethane	20	19.4	ug/L	97	6		1	205	20
	Vinyl Chloride	20	18.8	ug/L	94	4		5	195	20
	Bromomethane	20	21.2	ug/L	106	0		15	185	20
	Chloroethane	20	19.8	ug/L	99	0		40	160	20
	Trichlorofluoromethane	20	19.1	ug/L	96	6		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/L	95	6		64	127	20
	1,1-Dichloroethene	20	19.4	ug/L	97	2		50	150	20
	Acetone	100	100	ug/L	100	10		41	148	20
	Carbon disulfide	20	19.2	ug/L	96	5		76	107	20
	Methyl tert-butyl Ether	20	20.7	ug/L	104	3		82	114	20
	Methyl Acetate	20	20.9	ug/L	104	4		63	139	20
	Methylene Chloride	20	19.6	ug/L	98	0		60	140	20
	trans-1,2-Dichloroethene	20	19.3	ug/L	97	3		70	130	20
	1,1-Dichloroethane	20	19.3	ug/L	97	2		70	130	20
	Cyclohexane	20	19.6	ug/L	98	4		79	113	20
	2-Butanone	100	100	ug/L	100	1		69	129	20
	Carbon Tetrachloride	20	18.2	ug/L	91	2		70	130	20
	cis-1,2-Dichloroethene	20	20.0	ug/L	100	1		81	112	20
	Chloroform	20	20.0	ug/L	100	1		70	135	20
	1,1,1-Trichloroethane	20	18.7	ug/L	94	0		70	130	20
	Methylcyclohexane	20	18.4	ug/L	92	5		79	112	20
	Benzene	20	19.2	ug/L	96	1		65	135	20
	1,2-Dichloroethane	20	19.2	ug/L	96	2		70	130	20
	Trichloroethene	20	19.1	ug/L	96	3		65	135	20
	1,2-Dichloropropane	20	19.0	ug/L	95	0		35	165	20
	Bromodichloromethane	20	19.0	ug/L	95	2		65	135	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	2		73	131	20
	Toluene	20	19.2	ug/L	96	1		70	130	20
	t-1,3-Dichloropropene	20	19.3	ug/L	97	2		50	150	20
	cis-1,3-Dichloropropene	20	19.2	ug/L	96	2		25	175	20
	1,1,2-Trichloroethane	20	19.0	ug/L	95	2		70	130	20
	2-Hexanone	100	100	ug/L	100	2		72	128	20
	Dibromochloromethane	20	19.8	ug/L	99	7		70	135	20
	1,2-Dibromoethane	20	19.6	ug/L	98	4		86	114	20
	Tetrachloroethene	20	18.9	ug/L	95	3		70	130	20
	Chlorobenzene	20	19.4	ug/L	97	0		65	135	20
	Ethyl Benzene	20	19.2	ug/L	96	1		60	140	20
	m/p-Xylenes	40	38.7	ug/L	97	3		87	111	20
	o-Xylene	20	19.5	ug/L	98	5		87	111	20
	Styrene	20	20.0	ug/L	100	2		85	106	20
	Bromoform	20	19.4	ug/L	97	6		70	130	20
	Isopropylbenzene	20	19.7	ug/L	99	1		86	112	20
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	5		60	140	20
	1,3,5-Trimethylbenzene	20	19.5	ug/L	98	2		66	139	20
	1,3-Dichlorobenzene	20	19.2	ug/L	96	1		70	130	20
	1,4-Dichlorobenzene	20	19.5	ug/L	98	0		65	135	20
	1,2-Dichlorobenzene	20	19.7	ug/L	99	1		65	135	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5051

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1 **Datafile :** VN085125.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1206WBSD01	1,2-Dibromo-3-Chloropropane	20	20.3	ug/L	102	8		69	122	20
	1,2,4-Trichlorobenzene	20	20.2	ug/L	101	2		61	118	20
	1,2,3-Trichlorobenzene	20	20.2	ug/L	101	2		38	159	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1206WBL01

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG NO.: P5051

Lab File ID: VN085126.D Lab Sample ID: VN1206WBL01

Date Analyzed: 12/06/2024 Time Analyzed: 14:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1206WBS01	VN1206WBS01	VN085124.D	12/06/2024
VN1206WBSD01	VN1206WBSD01	VN085125.D	12/06/2024
14B-1	P5051-01	VN085127.D	12/06/2024
14B-2	P5051-02	VN085128.D	12/06/2024
14B-3	P5051-03	VN085129.D	12/06/2024
14B-4	P5051-04	VN085130.D	12/06/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG NO.: P5051

Lab File ID: VN085116.D BFB Injection Date: 12/06/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:14

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101.0% of mass 174	74.3 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 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
VSTDICC005	VSTDICC005	VN085117.D	12/06/2024	10:02
VSTDICCC020	VSTDICCC020	VN085118.D	12/06/2024	10:26
VSTDICC050	VSTDICC050	VN085119.D	12/06/2024	10:49
VSTDICC100	VSTDICC100	VN085120.D	12/06/2024	11:13
VSTDICC150	VSTDICC150	VN085121.D	12/06/2024	11:37
VN1206WBS01	VN1206WBS01	VN085124.D	12/06/2024	13:42
VN1206WBSD01	VN1206WBSD01	VN085125.D	12/06/2024	14:16
VN1206WBL01	VN1206WBL01	VN085126.D	12/06/2024	14:40
14B-1	P5051-01	VN085127.D	12/06/2024	15:15
14B-2	P5051-02	VN085128.D	12/06/2024	15:39
14B-3	P5051-03	VN085129.D	12/06/2024	16:03
14B-4	P5051-04	VN085130.D	12/06/2024	16:27

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG NO.: P5051

Lab File ID: VN085118.D Date Analyzed: 12/06/2024

Instrument ID: MSVOA_N Time Analyzed: 10:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	31263	7.81	162398	9.10	151793	11.87
UPPER LIMIT	62526	8.312	324796	9.6	303586	12.365
LOWER LIMIT	15631.5	7.312	81199	8.6	75896.5	11.365
EPA SAMPLE NO.						
14B-1	37165	7.81	188966	9.10	171066	11.87
14B-2	28473	7.82	143498	9.10	125904	11.87
14B-3	25952	7.81	125149	9.10	113060	11.87
14B-4	26993	7.81	137167	9.10	123603	11.87
VN1206WBL01	29636	7.81	149919	9.10	136142	11.87
VN1206WBS01	33289	7.81	183983	9.10	166391	11.87
VN1206WBSD01	30215	7.81	162631	9.10	149659	11.87

IS1 = Bromochloromethane
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.

QC SAMPLE DATA

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBL01	SDG No.:	P5051
Lab Sample ID:	VN1206WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085126.D	1		12/06/24 14:40	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBL01	SDG No.:	P5051
Lab Sample ID:	VN1206WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085126.D	1		12/06/24 14:40	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.7		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	29.0		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.3		63 - 112	81%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29600	7.812			
540-36-3	1,4-Difluorobenzene	150000	9.1			
3114-55-4	Chlorobenzene-d5	136000	11.865			

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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBL01	SDG No.:	P5051
Lab Sample ID:	VN1206WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085126.D	1		12/06/24 14:40	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBS01	SDG No.:	P5051
Lab Sample ID:	VN1206WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085124.D	1		12/06/24 13:42	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		1.20	5.00	ug/L
74-87-3	Chloromethane	20.6		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	19.6		1.20	5.00	ug/L
74-83-9	Bromomethane	21.2		1.40	5.00	ug/L
75-00-3	Chloroethane	19.8		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	20.4		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		1.10	5.00	ug/L
67-64-1	Acetone	110		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	20.1		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	20.2		0.83	5.00	ug/L
79-20-9	Methyl Acetate	20.0		1.20	5.00	ug/L
75-09-2	Methylene Chloride	19.6		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.81	5.00	ug/L
110-82-7	Cyclohexane	20.4		1.00	5.00	ug/L
78-93-3	2-Butanone	98.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.91	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.1		0.90	5.00	ug/L
67-66-3	Chloroform	20.1		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.8		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.89	5.00	ug/L
71-43-2	Benzene	19.0		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.75	5.00	ug/L
79-01-6	Trichloroethene	19.7		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.65	5.00	ug/L
75-27-4	Bromodichloromethane	18.6		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	97.5		4.20	25.0	ug/L
108-88-3	Toluene	19.4		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.0		0.79	5.00	ug/L

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBS01	SDG No.:	P5051
Lab Sample ID:	VN1206WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085124.D	1		12/06/24 13:42	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	18.7		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.5		0.68	5.00	ug/L
591-78-6	2-Hexanone	98.4		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.4		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.7		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.94	5.00	ug/L
108-90-7	Chlorobenzene	19.3		0.67	5.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	40.0		1.70	10.0	ug/L
95-47-6	o-Xylene	20.5		0.82	5.00	ug/L
100-42-5	Styrene	20.3		0.80	5.00	ug/L
75-25-2	Bromoform	18.1		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.60	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.9		0.74	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.5		1.10	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.5		1.40	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.1		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.0		63 - 112	100%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	33300	7.812			
540-36-3	1,4-Difluorobenzene	184000	9.1			
3114-55-4	Chlorobenzene-d5	166000	11.865			

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBS01	SDG No.:	P5051
Lab Sample ID:	VN1206WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085124.D	1		12/06/24 13:42	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBSD01	SDG No.:	P5051
Lab Sample ID:	VN1206WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085125.D	1		12/06/24 14:16	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.20	5.00	ug/L
74-87-3	Chloromethane	19.4		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.8		1.20	5.00	ug/L
74-83-9	Bromomethane	21.2		1.40	5.00	ug/L
75-00-3	Chloroethane	19.8		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.1		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.4		1.10	5.00	ug/L
67-64-1	Acetone	100		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	19.2		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	20.7		0.83	5.00	ug/L
79-20-9	Methyl Acetate	20.9		1.20	5.00	ug/L
75-09-2	Methylene Chloride	19.6		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.81	5.00	ug/L
110-82-7	Cyclohexane	19.6		1.00	5.00	ug/L
78-93-3	2-Butanone	100		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.2		0.91	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0		0.90	5.00	ug/L
67-66-3	Chloroform	20.0		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.89	5.00	ug/L
71-43-2	Benzene	19.2		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.75	5.00	ug/L
79-01-6	Trichloroethene	19.1		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.65	5.00	ug/L
75-27-4	Bromodichloromethane	19.0		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		4.20	25.0	ug/L
108-88-3	Toluene	19.2		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.3		0.79	5.00	ug/L

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBSD01	SDG No.:	P5051
Lab Sample ID:	VN1206WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085125.D	1		12/06/24 14:16	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	19.2		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.0		0.68	5.00	ug/L
591-78-6	2-Hexanone	100		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	19.8		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	19.6		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.94	5.00	ug/L
108-90-7	Chlorobenzene	19.4		0.67	5.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	38.7		1.70	10.0	ug/L
95-47-6	o-Xylene	19.5		0.82	5.00	ug/L
100-42-5	Styrene	20.0		0.80	5.00	ug/L
75-25-2	Bromoform	19.4		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.7		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.60	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.5		0.74	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.7		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.3		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.2		1.10	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.2		1.40	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.8		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	29.6		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.6		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30200	7.812			
540-36-3	1,4-Difluorobenzene	163000	9.1			
3114-55-4	Chlorobenzene-d5	150000	11.865			

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1206WBSD01	SDG No.:	P5051
Lab Sample ID:	VN1206WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085125.D	1		12/06/24 14:16	VN120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG No.: P5051

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VN085117.D RRF020 = VN085118.D RRF050 = VN085119.D
RRF100 = VN085120.D RRF150 = VN085121.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.072	2.467	2.334	2.565	2.563		2.400	8.6
Chloromethane	2.058	2.093	2.013	2.202	2.256		2.124	4.8
Vinyl Chloride	2.171	2.147	2.026	2.258	2.263		2.173	4.5
Bromomethane	1.578	1.334	1.261	1.364	1.361		1.380	8.6
Chloroethane	1.331	1.302	1.259	1.382	1.401		1.335	4.4
Trichlorofluoromethane	3.495	3.461	3.321	3.725	3.781		3.557	5.4
1,1,2-Trichlorotrifluoroethane	1.976	1.924	1.900	2.062	2.084		1.989	4.1
1,1-Dichloroethene	1.669	1.752	1.743	1.978	1.993		1.827	8.1
Acetone	0.217	0.228	0.233	0.270	0.264		0.243	9.6
Carbon Disulfide	5.377	5.368	5.062	5.709	5.789		5.461	5.4
Methyl tert-Butyl Ether	4.744	5.454	5.524	6.311	6.507		5.708	12.5
Methyl Acetate	2.041	2.062	2.033	2.305	2.337		2.155	7
Methylene Chloride	2.198	2.012	1.927	2.127	2.100		2.073	5.1
trans-1,2-Dichloroethene	1.876	1.799	1.782	2.012	2.027		1.899	6.1
1,1-Dichloroethane	3.621	3.416	3.269	3.705	3.693		3.541	5.4
Cyclohexane	0.458	0.563	0.563	0.591	0.584		0.552	9.8
2-Butanone	0.207	0.217	0.218	0.235	0.234		0.222	5.4
Carbon Tetrachloride	0.619	0.587	0.566	0.591	0.593		0.591	3.2
cis-1,2-Dichloroethene	2.011	2.125	2.092	2.320	2.366		2.183	7
Chloroform	3.779	3.635	3.508	3.813	3.814		3.710	3.6
1,1,1-Trichloroethane	0.683	0.665	0.619	0.657	0.652		0.655	3.6
Methylcyclohexane	0.453	0.481	0.526	0.579	0.593		0.526	11.5
Benzene	1.581	1.501	1.456	1.543	1.523		1.521	3.1
1,2-Dichloroethane	0.564	0.505	0.491	0.518	0.510		0.518	5.4
Trichloroethene	0.367	0.356	0.344	0.373	0.371		0.362	3.4
1,2-Dichloropropane	0.388	0.370	0.351	0.366	0.368		0.368	3.7
Bromodichloromethane	0.596	0.554	0.541	0.565	0.568		0.565	3.6
4-Methyl-2-Pentanone	0.431	0.494	0.483	0.524	0.516		0.490	7.5
Toluene	1.780	1.713	1.680	1.799	1.777		1.750	2.9
t-1,3-Dichloropropene	0.518	0.517	0.541	0.592	0.603		0.554	7.4

* 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.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG No.: P5051

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VN085117.D RRF020 = VN085118.D RRF050 = VN085119.D
RRF100 = VN085120.D RRF150 = VN085121.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
cis-1,3-Dichloropropene	0.581	0.590	0.583	0.629	0.636		0.604	4.4
1,1,2-Trichloroethane	0.387	0.355	0.336	0.353	0.349		0.356	5.2
2-Hexanone	0.314	0.376	0.371	0.402	0.391		0.371	9.2
Dibromochloromethane	0.455	0.426	0.413	0.438	0.438		0.434	3.7
1,2-Dibromoethane	0.358	0.348	0.348	0.371	0.369		0.359	3.1
Tetrachloroethene	0.407	0.358	0.342	0.359	0.351		0.363	7
Chlorobenzene	1.074	1.056	1.037	1.121	1.113		1.080	3.3
Ethyl Benzene	1.626	1.739	1.845	2.032	2.041		1.857	9.8
m/p-Xylenes	0.601	0.713	0.706	0.775	0.775		0.714	10
o-Xylene	0.561	0.648	0.681	0.734	0.729		0.671	10.5
Styrene	0.892	1.097	1.164	1.270	1.266		1.138	13.7
Bromoform	0.294	0.275	0.282	0.301	0.302		0.291	4.1
Isopropylbenzene	1.409	1.656	1.747	1.932	1.903		1.730	12.3
1,1,2,2-Tetrachloroethane	0.551	0.532	0.503	0.526	0.521		0.526	3.3
1,3,5-Trimethylbenzene	1.241	1.441	1.488	1.630	1.609		1.482	10.6
1,3-Dichlorobenzene	0.779	0.765	0.772	0.842	0.816		0.795	4.1
1,4-Dichlorobenzene	0.725	0.742	0.759	0.829	0.818		0.775	6
1,2-Dichlorobenzene	0.743	0.721	0.734	0.787	0.767		0.750	3.5
1,2-Dibromo-3-Chloropropane	0.095	0.103	0.101	0.112	0.116		0.105	8
1,2,4-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431		0.367	16.8
1,2,3-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431		0.367	16.8
1,2-Dichloroethane-d4	2.462	2.393	2.263	2.370	2.414		2.380	3.1
Toluene-d8	1.462	1.443	1.392	1.372	1.367		1.407	3.1
4-Bromofluorobenzene	0.479	0.495	0.500	0.509	0.499		0.496	2.2

* 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.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG No.: P5051

Instrument ID: MSVOA_N Calibration Date/Time: 12/06/2024 10:26

Lab File ID: VN085118.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.400	2.467		2.79	
Chloromethane	2.124	2.093		-1.46	
Vinyl Chloride	2.173	2.147		-1.2	
Bromomethane	1.380	1.334		-3.33	
Chloroethane	1.335	1.302		-2.47	
Trichlorofluoromethane	3.557	3.461		-2.7	
1,1,2-Trichlorotrifluoroethane	1.989	1.924		-3.27	
1,1-Dichloroethene	1.827	1.752		-4.11	
Acetone	0.243	0.228		-6.17	
Carbon Disulfide	5.461	5.368		-1.7	
Methyl tert-Butyl Ether	5.708	5.454		-4.45	
Methyl Acetate	2.155	2.062		-4.32	
Methylene Chloride	2.073	2.012		-2.94	
trans-1,2-Dichloroethene	1.899	1.799		-5.27	
1,1-Dichloroethane	3.541	3.416		-3.53	
Cyclohexane	0.552	0.563		1.99	
2-Butanone	0.222	0.217		-2.25	
Carbon Tetrachloride	0.591	0.587		-0.68	
cis-1,2-Dichloroethene	2.183	2.125		-2.66	
Chloroform	3.710	3.635		-2.02	
1,1,1-Trichloroethane	0.655	0.665		1.53	
Methylcyclohexane	0.526	0.481		-8.56	
Benzene	1.521	1.501		-1.32	
1,2-Dichloroethane	0.518	0.505		-2.51	
Trichloroethene	0.362	0.356		-1.66	
1,2-Dichloropropane	0.368	0.370		0.54	
Bromodichloromethane	0.565	0.554		-1.95	
4-Methyl-2-Pentanone	0.490	0.494		0.82	
Toluene	1.750	1.713		-2.11	
t-1,3-Dichloropropene	0.554	0.517		-6.68	
cis-1,3-Dichloropropene	0.604	0.590		-2.32	
1,1,2-Trichloroethane	0.356	0.355		-0.28	
2-Hexanone	0.371	0.376		1.35	
Dibromochloromethane	0.434	0.426		-1.84	
1,2-Dibromoethane	0.359	0.348		-3.06	
Tetrachloroethene	0.363	0.358		-1.38	
Chlorobenzene	1.080	1.056		-2.22	
Ethyl Benzene	1.857	1.739		-6.35	

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5051 SAS No.: P5051 SDG No.: P5051

Instrument ID: MSVOA_N Calibration Date/Time: 12/06/2024 10:26

Lab File ID: VN085118.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
m/p-Xylenes	0.714	0.713		-0.14	
o-Xylene	0.671	0.648		-3.43	
Styrene	1.138	1.097		-3.6	
Bromoform	0.291	0.275		-5.5	
Isopropylbenzene	1.730	1.656		-4.28	
1,1,2,2-Tetrachloroethane	0.526	0.532		1.14	
1,3,5-Trimethylbenzene	1.482	1.441		-2.77	
1,3-Dichlorobenzene	0.795	0.765		-3.77	
1,4-Dichlorobenzene	0.775	0.742		-4.26	
1,2-Dichlorobenzene	0.750	0.721		-3.87	
1,2-Dibromo-3-Chloropropane	0.105	0.103		-1.9	
1,2,4-Trichlorobenzene	0.367	0.342		-6.81	
1,2,3-Trichlorobenzene	0.367	0.342		-6.81	
1,2-Dichloroethane-d4	2.380	2.393		0.55	
Toluene-d8	1.407	1.443		2.56	
4-Bromofluorobenzene	0.496	0.495		-0.2	

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

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LAB CHRONICLE

OrderID:	P5051	**OrderDate:**	12/2/2024 2:00:00 PM
Client:	New York City DEP of Environmental Protection/BWS	**Project:**	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5051-07	**14B-(1-4)-COMP**	**Water**			**12/02/24**			**12/02/24**
			Mercury	245.1		12/10/24	12/10/24	
			Metals ICP-Group1	200.7		12/04/24	12/06/24	

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Hit Summary Sheet
SW-846

SDG No.: P5051 **Order ID:** P5051

Client: New York City DEP of Environmental Protection/BW **Project ID:** Industrial Wastewater Discharge Permit - Fa

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 14B-(1-4)-COMP								
P5051-07	14B-(1-4)-COMP	Water	Aluminum	745000		10.6	50.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Arsenic	71.8		2.84	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Barium	589		11.3	50.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Cadmium	2.90	J	0.21	3.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Calcium	36200		51.8	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Chromium	20.8		0.52	5.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Cobalt	8.54	J	0.88	15.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Copper	501		1.52	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Iron	33700		12.4	50.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Lead	19.5		1.57	6.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Magnesium	8830		61.2	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Manganese	22000		0.87	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Mercury	1.11		0.022	0.20	ug/L
P5051-07	14B-(1-4)-COMP	Water	Nickel	22.9		1.28	20.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Potassium	3270		281	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Selenium	8.83	J	3.07	10.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Silver	2.62	J	0.83	5.00	ug/L
P5051-07	14B-(1-4)-COMP	Water	Sodium	35200		448	1000	ug/L
P5051-07	14B-(1-4)-COMP	Water	Vanadium	32.8		2.40	20.0	ug/L
P5051-07	14B-(1-4)-COMP	Water	Zinc	128		1.44	20.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-(1-4)-COMP	SDG No.:	P5051
Lab Sample ID:	P5051-07	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.
7429-90-5	Aluminum	745000		1	10.6	50.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-36-0	Antimony	2.96	UN	1	2.96	25.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-38-2	Arsenic	71.8		1	2.84	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-39-3	Barium	589		1	11.3	50.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-41-7	Beryllium	0.19	U	1	0.19	3.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-43-9	Cadmium	2.90	J	1	0.21	3.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-70-2	Calcium	36200		1	51.8	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-47-3	Chromium	20.8		1	0.52	5.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-48-4	Cobalt	8.54	J	1	0.88	15.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-50-8	Copper	501		1	1.52	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-89-6	Iron	33700		1	12.4	50.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-92-1	Lead	19.5		1	1.57	6.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-95-4	Magnesium	8830		1	61.2	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-96-5	Manganese	22000		1	0.87	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7439-97-6	Mercury	1.11		1	0.022	0.20	ug/L	12/10/24 08:00	12/10/24 11:16	E245.1	
7440-02-0	Nickel	22.9		1	1.28	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-09-7	Potassium	3270		1	281	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7782-49-2	Selenium	8.83	J	1	3.07	10.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-22-4	Silver	2.62	J	1	0.83	5.00	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-23-5	Sodium	35200		1	448	1000	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-28-0	Thallium	2.21	U	1	2.21	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-62-2	Vanadium	32.8		1	2.40	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	
7440-66-6	Zinc	128		1	1.44	20.0	ug/L	12/04/24 11:35	12/06/24 14:25	EPA 200.7	

Color Before:	Brown	Clarity Before:	Clear	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group1				

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

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV14	Mercury	4.03	4.0	101	95 - 105	CV	12/10/2024	10:09	LB133852

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Mercury	5.46	5.0	109	90 - 110	CV	12/10/2024	10:29	LB133852
CCV11	Mercury	4.69	5.0	94	90 - 110	CV	12/10/2024	11:26	LB133852
CCV12	Mercury	5.35	5.0	107	90 - 110	CV	12/10/2024	11:44	LB133852

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	2530	2500	101	95 - 105	P	12/05/2024	13:53	LB133769
	Antimony	982	1000	98	95 - 105	P	12/05/2024	13:53	LB133769
	Arsenic	965	1000	96	95 - 105	P	12/05/2024	13:53	LB133769
	Barium	519	520	100	95 - 105	P	12/05/2024	13:53	LB133769
	Beryllium	520	510	102	95 - 105	P	12/05/2024	13:53	LB133769
	Cadmium	500	510	98	95 - 105	P	12/05/2024	13:53	LB133769
	Calcium	9900	10000	99	95 - 105	P	12/05/2024	13:53	LB133769
	Chromium	523	520	101	95 - 105	P	12/05/2024	13:53	LB133769
	Cobalt	505	520	97	95 - 105	P	12/05/2024	13:53	LB133769
	Copper	512	510	100	95 - 105	P	12/05/2024	13:53	LB133769
	Iron	9730	10000	97	95 - 105	P	12/05/2024	13:53	LB133769
	Lead	986	1000	99	95 - 105	P	12/05/2024	13:53	LB133769
	Magnesium	5850	6000	98	95 - 105	P	12/05/2024	13:53	LB133769
	Manganese	519	520	100	95 - 105	P	12/05/2024	13:53	LB133769
	Nickel	508	530	96	95 - 105	P	12/05/2024	13:53	LB133769
	Potassium	9590	9900	97	95 - 105	P	12/05/2024	13:53	LB133769
	Selenium	999	1000	100	95 - 105	P	12/05/2024	13:53	LB133769
	Silver	250	250	100	95 - 105	P	12/05/2024	13:53	LB133769
	Sodium	9810	10000	98	95 - 105	P	12/05/2024	13:53	LB133769
	Thallium	1010	1000	101	95 - 105	P	12/05/2024	13:53	LB133769
	Vanadium	508	500	102	95 - 105	P	12/05/2024	13:53	LB133769
	Zinc	1020	1000	102	95 - 105	P	12/05/2024	13:53	LB133769

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	99.5	100	100	80 - 120	P	12/05/2024	14:05	LB133769
	Antimony	47.1	50.0	94	80 - 120	P	12/05/2024	14:05	LB133769
	Arsenic	20.4	20.0	102	80 - 120	P	12/05/2024	14:05	LB133769
	Barium	102	100	102	80 - 120	P	12/05/2024	14:05	LB133769
	Beryllium	6.14	6.0	102	80 - 120	P	12/05/2024	14:05	LB133769
	Cadmium	5.99	6.0	100	80 - 120	P	12/05/2024	14:05	LB133769
	Calcium	2050	2000	102	80 - 120	P	12/05/2024	14:05	LB133769
	Chromium	9.91	10.0	99	80 - 120	P	12/05/2024	14:05	LB133769
	Cobalt	29.7	30.0	99	80 - 120	P	12/05/2024	14:05	LB133769
	Copper	21.8	20.0	109	80 - 120	P	12/05/2024	14:05	LB133769
	Iron	98.7	100	99	80 - 120	P	12/05/2024	14:05	LB133769
	Lead	11.8	12.0	98	80 - 120	P	12/05/2024	14:05	LB133769
	Magnesium	2150	2000	108	80 - 120	P	12/05/2024	14:05	LB133769
	Manganese	21.1	20.0	105	80 - 120	P	12/05/2024	14:05	LB133769
	Nickel	39.7	40.0	99	80 - 120	P	12/05/2024	14:05	LB133769
	Potassium	1950	2000	97	80 - 120	P	12/05/2024	14:05	LB133769
	Selenium	18.9	20.0	94	80 - 120	P	12/05/2024	14:05	LB133769
	Silver	10.1	10.0	101	80 - 120	P	12/05/2024	14:05	LB133769
	Sodium	1970	2000	98	80 - 120	P	12/05/2024	14:05	LB133769
	Thallium	41.8	40.0	105	80 - 120	P	12/05/2024	14:05	LB133769
	Vanadium	42.0	40.0	105	80 - 120	P	12/05/2024	14:05	LB133769
	Zinc	42.9	40.0	107	80 - 120	P	12/05/2024	14:05	LB133769

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	9910	10000	99	90 - 110	P	12/05/2024	14:45	LB133769
	Antimony	4930	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Arsenic	4940	5000	99	90 - 110	P	12/05/2024	14:45	LB133769
	Barium	9980	10000	100	90 - 110	P	12/05/2024	14:45	LB133769
	Beryllium	247	250	99	90 - 110	P	12/05/2024	14:45	LB133769
	Cadmium	2450	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Calcium	24500	25000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Chromium	996	1000	100	90 - 110	P	12/05/2024	14:45	LB133769
	Cobalt	2440	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Copper	1250	1250	100	90 - 110	P	12/05/2024	14:45	LB133769
	Iron	4910	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Lead	4910	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Magnesium	24400	25000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Manganese	2450	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Nickel	2450	2500	98	90 - 110	P	12/05/2024	14:45	LB133769
	Potassium	24900	25000	100	90 - 110	P	12/05/2024	14:45	LB133769
	Selenium	4970	5000	99	90 - 110	P	12/05/2024	14:45	LB133769
	Silver	1230	1250	98	90 - 110	P	12/05/2024	14:45	LB133769
	Sodium	25500	25000	102	90 - 110	P	12/05/2024	14:45	LB133769
	Thallium	4890	5000	98	90 - 110	P	12/05/2024	14:45	LB133769
	Vanadium	2470	2500	99	90 - 110	P	12/05/2024	14:45	LB133769
	Zinc	2510	2500	100	90 - 110	P	12/05/2024	14:45	LB133769
CCV02	Aluminum	9550	10000	96	90 - 110	P	12/05/2024	15:34	LB133769
	Antimony	4740	5000	95	90 - 110	P	12/05/2024	15:34	LB133769
	Arsenic	4770	5000	95	90 - 110	P	12/05/2024	15:34	LB133769
	Barium	9480	10000	95	90 - 110	P	12/05/2024	15:34	LB133769
	Beryllium	256	250	102	90 - 110	P	12/05/2024	15:34	LB133769
	Cadmium	2500	2500	100	90 - 110	P	12/05/2024	15:34	LB133769
	Calcium	25500	25000	102	90 - 110	P	12/05/2024	15:34	LB133769
	Chromium	1010	1000	102	90 - 110	P	12/05/2024	15:34	LB133769
	Cobalt	2480	2500	99	90 - 110	P	12/05/2024	15:34	LB133769
	Copper	1200	1250	96	90 - 110	P	12/05/2024	15:34	LB133769
	Iron	4950	5000	99	90 - 110	P	12/05/2024	15:34	LB133769
	Lead	4970	5000	99	90 - 110	P	12/05/2024	15:34	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Magnesium	24900	25000	100	90 - 110	P	12/05/2024	15:34	LB133769
	Manganese	2510	2500	100	90 - 110	P	12/05/2024	15:34	LB133769
	Nickel	2480	2500	99	90 - 110	P	12/05/2024	15:34	LB133769
	Potassium	22600	25000	90	90 - 110	P	12/05/2024	15:34	LB133769
	Selenium	4780	5000	96	90 - 110	P	12/05/2024	15:34	LB133769
	Silver	1230	1250	98	90 - 110	P	12/05/2024	15:34	LB133769
	Sodium	22800	25000	91	90 - 110	P	12/05/2024	15:34	LB133769
	Thallium	4980	5000	100	90 - 110	P	12/05/2024	15:34	LB133769
	Vanadium	2490	2500	100	90 - 110	P	12/05/2024	15:34	LB133769
	Zinc	2450	2500	98	90 - 110	P	12/05/2024	15:34	LB133769
CCV03	Aluminum	9830	10000	98	90 - 110	P	12/05/2024	16:42	LB133769
	Antimony	4840	5000	97	90 - 110	P	12/05/2024	16:42	LB133769
	Arsenic	4860	5000	97	90 - 110	P	12/05/2024	16:42	LB133769
	Barium	9790	10000	98	90 - 110	P	12/05/2024	16:42	LB133769
	Beryllium	256	250	102	90 - 110	P	12/05/2024	16:42	LB133769
	Cadmium	2520	2500	101	90 - 110	P	12/05/2024	16:42	LB133769
	Calcium	25300	25000	101	90 - 110	P	12/05/2024	16:42	LB133769
	Chromium	1020	1000	102	90 - 110	P	12/05/2024	16:42	LB133769
	Cobalt	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Copper	1220	1250	98	90 - 110	P	12/05/2024	16:42	LB133769
	Iron	4940	5000	99	90 - 110	P	12/05/2024	16:42	LB133769
	Lead	5020	5000	100	90 - 110	P	12/05/2024	16:42	LB133769
	Magnesium	25000	25000	100	90 - 110	P	12/05/2024	16:42	LB133769
	Manganese	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Nickel	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Potassium	23700	25000	95	90 - 110	P	12/05/2024	16:42	LB133769
	Selenium	4890	5000	98	90 - 110	P	12/05/2024	16:42	LB133769
	Silver	1240	1250	99	90 - 110	P	12/05/2024	16:42	LB133769
	Sodium	24100	25000	96	90 - 110	P	12/05/2024	16:42	LB133769
	Thallium	5160	5000	103	90 - 110	P	12/05/2024	16:42	LB133769
	Vanadium	2500	2500	100	90 - 110	P	12/05/2024	16:42	LB133769
	Zinc	2520	2500	101	90 - 110	P	12/05/2024	16:42	LB133769
CCV04	Aluminum	9350	10000	94	90 - 110	P	12/05/2024	17:41	LB133769
	Antimony	4630	5000	93	90 - 110	P	12/05/2024	17:41	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Arsenic	4670	5000	94	90 - 110	P	12/05/2024	17:41	LB133769
	Barium	9340	10000	93	90 - 110	P	12/05/2024	17:41	LB133769
	Beryllium	255	250	102	90 - 110	P	12/05/2024	17:41	LB133769
	Cadmium	2480	2500	99	90 - 110	P	12/05/2024	17:41	LB133769
	Calcium	25000	25000	100	90 - 110	P	12/05/2024	17:41	LB133769
	Chromium	997	1000	100	90 - 110	P	12/05/2024	17:41	LB133769
	Cobalt	2440	2500	98	90 - 110	P	12/05/2024	17:41	LB133769
	Copper	1170	1250	94	90 - 110	P	12/05/2024	17:41	LB133769
	Iron	4760	5000	95	90 - 110	P	12/05/2024	17:41	LB133769
	Lead	4910	5000	98	90 - 110	P	12/05/2024	17:41	LB133769
	Magnesium	24300	25000	97	90 - 110	P	12/05/2024	17:41	LB133769
	Manganese	2450	2500	98	90 - 110	P	12/05/2024	17:41	LB133769
	Nickel	2450	2500	98	90 - 110	P	12/05/2024	17:41	LB133769
	Potassium	26100	25000	104	90 - 110	P	12/05/2024	17:41	LB133769
	Selenium	4700	5000	94	90 - 110	P	12/05/2024	17:41	LB133769
	Silver	1200	1250	96	90 - 110	P	12/05/2024	17:41	LB133769
	Sodium	25600	25000	102	90 - 110	P	12/05/2024	17:41	LB133769
	Thallium	5020	5000	100	90 - 110	P	12/05/2024	17:41	LB133769
	Vanadium	2440	2500	97	90 - 110	P	12/05/2024	17:41	LB133769
	Zinc	2380	2500	95	90 - 110	P	12/05/2024	17:41	LB133769
CCV05	Aluminum	9350	10000	94	90 - 110	P	12/05/2024	18:39	LB133769
	Antimony	4500	5000	90	90 - 110	P	12/05/2024	18:39	LB133769
	Arsenic	4580	5000	92	90 - 110	P	12/05/2024	18:39	LB133769
	Barium	9210	10000	92	90 - 110	P	12/05/2024	18:39	LB133769
	Beryllium	266	250	106	90 - 110	P	12/05/2024	18:39	LB133769
	Cadmium	2540	2500	102	90 - 110	P	12/05/2024	18:39	LB133769
	Calcium	25500	25000	102	90 - 110	P	12/05/2024	18:39	LB133769
	Chromium	1030	1000	103	90 - 110	P	12/05/2024	18:39	LB133769
	Cobalt	2490	2500	99	90 - 110	P	12/05/2024	18:39	LB133769
	Copper	1140	1250	91	90 - 110	P	12/05/2024	18:39	LB133769
	Iron	4770	5000	95	90 - 110	P	12/05/2024	18:39	LB133769
	Lead	5000	5000	100	90 - 110	P	12/05/2024	18:39	LB133769
	Magnesium	24800	25000	99	90 - 110	P	12/05/2024	18:39	LB133769
	Manganese	2470	2500	99	90 - 110	P	12/05/2024	18:39	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV05	Nickel	2490	2500	99	90 - 110	P	12/05/2024	18:39	LB133769
	Potassium	25400	25000	102	90 - 110	P	12/05/2024	18:39	LB133769
	Selenium	4560	5000	91	90 - 110	P	12/05/2024	18:39	LB133769
	Silver	1210	1250	97	90 - 110	P	12/05/2024	18:39	LB133769
	Sodium	24800	25000	99	90 - 110	P	12/05/2024	18:39	LB133769
	Thallium	5080	5000	102	90 - 110	P	12/05/2024	18:39	LB133769
	Vanadium	2460	2500	98	90 - 110	P	12/05/2024	18:39	LB133769
	Zinc	2390	2500	96	90 - 110	P	12/05/2024	18:39	LB133769
CCV06	Aluminum	9230	10000	92	90 - 110	P	12/05/2024	19:45	LB133769
	Antimony	4550	5000	91	90 - 110	P	12/05/2024	19:45	LB133769
	Arsenic	4640	5000	93	90 - 110	P	12/05/2024	19:45	LB133769
	Barium	9070	10000	91	90 - 110	P	12/05/2024	19:45	LB133769
	Beryllium	270	250	108	90 - 110	P	12/05/2024	19:45	LB133769
	Cadmium	2590	2500	104	90 - 110	P	12/05/2024	19:45	LB133769
	Calcium	25600	25000	102	90 - 110	P	12/05/2024	19:45	LB133769
	Chromium	1030	1000	103	90 - 110	P	12/05/2024	19:45	LB133769
	Cobalt	2530	2500	101	90 - 110	P	12/05/2024	19:45	LB133769
	Copper	1160	1250	92	90 - 110	P	12/05/2024	19:45	LB133769
	Iron	4750	5000	95	90 - 110	P	12/05/2024	19:45	LB133769
	Lead	5080	5000	102	90 - 110	P	12/05/2024	19:45	LB133769
	Magnesium	24800	25000	99	90 - 110	P	12/05/2024	19:45	LB133769
	Manganese	2490	2500	100	90 - 110	P	12/05/2024	19:45	LB133769
	Nickel	2530	2500	101	90 - 110	P	12/05/2024	19:45	LB133769
	Potassium	24800	25000	99	90 - 110	P	12/05/2024	19:45	LB133769
	Selenium	4610	5000	92	90 - 110	P	12/05/2024	19:45	LB133769
	Silver	1210	1250	97	90 - 110	P	12/05/2024	19:45	LB133769
	Sodium	23900	25000	96	90 - 110	P	12/05/2024	19:45	LB133769
	Thallium	5080	5000	102	90 - 110	P	12/05/2024	19:45	LB133769
	Vanadium	2460	2500	98	90 - 110	P	12/05/2024	19:45	LB133769
	Zinc	2360	2500	95	90 - 110	P	12/05/2024	19:45	LB133769
CCV07	Aluminum	9400	10000	94	90 - 110	P	12/05/2024	20:23	LB133769
	Antimony	4510	5000	90	90 - 110	P	12/05/2024	20:23	LB133769
	Arsenic	4600	5000	92	90 - 110	P	12/05/2024	20:23	LB133769
	Barium	9140	10000	91	90 - 110	P	12/05/2024	20:23	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV07	Beryllium	264	250	106	90 - 110	P	12/05/2024	20:23	LB133769
	Cadmium	2600	2500	104	90 - 110	P	12/05/2024	20:23	LB133769
	Calcium	26300	25000	105	90 - 110	P	12/05/2024	20:23	LB133769
	Chromium	1050	1000	105	90 - 110	P	12/05/2024	20:23	LB133769
	Cobalt	2530	2500	101	90 - 110	P	12/05/2024	20:23	LB133769
	Copper	1150	1250	92	90 - 110	P	12/05/2024	20:23	LB133769
	Iron	4830	5000	97	90 - 110	P	12/05/2024	20:23	LB133769
	Lead	5080	5000	102	90 - 110	P	12/05/2024	20:23	LB133769
	Magnesium	25600	25000	102	90 - 110	P	12/05/2024	20:23	LB133769
	Manganese	2540	2500	101	90 - 110	P	12/05/2024	20:23	LB133769
	Nickel	2540	2500	102	90 - 110	P	12/05/2024	20:23	LB133769
	Potassium	25200	25000	101	90 - 110	P	12/05/2024	20:23	LB133769
	Selenium	4550	5000	91	90 - 110	P	12/05/2024	20:23	LB133769
	Silver	1230	1250	98	90 - 110	P	12/05/2024	20:23	LB133769
	Sodium	24900	25000	100	90 - 110	P	12/05/2024	20:23	LB133769
	Thallium	5080	5000	102	90 - 110	P	12/05/2024	20:23	LB133769
	Vanadium	2510	2500	101	90 - 110	P	12/05/2024	20:23	LB133769
	Zinc	2430	2500	97	90 - 110	P	12/05/2024	20:23	LB133769

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	2570	2500	103	95 - 105	P	12/06/2024	12:14	LB133790
	Antimony	1020	1000	102	95 - 105	P	12/06/2024	12:14	LB133790
	Arsenic	995	1000	100	95 - 105	P	12/06/2024	12:14	LB133790
	Barium	516	520	99	95 - 105	P	12/06/2024	12:14	LB133790
	Beryllium	518	510	102	95 - 105	P	12/06/2024	12:14	LB133790
	Cadmium	503	510	99	95 - 105	P	12/06/2024	12:14	LB133790
	Calcium	10100	10000	101	95 - 105	P	12/06/2024	12:14	LB133790
	Chromium	526	520	101	95 - 105	P	12/06/2024	12:14	LB133790
	Cobalt	512	520	98	95 - 105	P	12/06/2024	12:14	LB133790
	Copper	528	510	104	95 - 105	P	12/06/2024	12:14	LB133790
	Iron	9870	10000	99	95 - 105	P	12/06/2024	12:14	LB133790
	Lead	1000	1000	100	95 - 105	P	12/06/2024	12:14	LB133790
	Magnesium	5930	6000	99	95 - 105	P	12/06/2024	12:14	LB133790
	Manganese	521	520	100	95 - 105	P	12/06/2024	12:14	LB133790
	Nickel	514	530	97	95 - 105	P	12/06/2024	12:14	LB133790
	Potassium	9770	9900	99	95 - 105	P	12/06/2024	12:14	LB133790
	Selenium	1030	1000	103	95 - 105	P	12/06/2024	12:14	LB133790
	Silver	253	250	101	95 - 105	P	12/06/2024	12:14	LB133790
	Sodium	9550	10000	96	95 - 105	P	12/06/2024	12:14	LB133790
	Thallium	1040	1000	104	95 - 105	P	12/06/2024	12:14	LB133790
	Vanadium	513	500	102	95 - 105	P	12/06/2024	12:14	LB133790
	Zinc	1030	1000	103	95 - 105	P	12/06/2024	12:14	LB133790

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	105	100	105	80 - 120	P	12/06/2024	12:20	LB133790
	Antimony	51.1	50.0	102	80 - 120	P	12/06/2024	12:20	LB133790
	Arsenic	19.8	20.0	99	80 - 120	P	12/06/2024	12:20	LB133790
	Barium	96.9	100	97	80 - 120	P	12/06/2024	12:20	LB133790
	Beryllium	6.20	6.0	103	80 - 120	P	12/06/2024	12:20	LB133790
	Cadmium	5.98	6.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Calcium	2050	2000	102	80 - 120	P	12/06/2024	12:20	LB133790
	Chromium	10.0	10.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Cobalt	29.5	30.0	98	80 - 120	P	12/06/2024	12:20	LB133790
	Copper	22.1	20.0	111	80 - 120	P	12/06/2024	12:20	LB133790
	Iron	98.1	100	98	80 - 120	P	12/06/2024	12:20	LB133790
	Lead	10.5	12.0	88	80 - 120	P	12/06/2024	12:20	LB133790
	Magnesium	2140	2000	107	80 - 120	P	12/06/2024	12:20	LB133790
	Manganese	20.6	20.0	103	80 - 120	P	12/06/2024	12:20	LB133790
	Nickel	39.5	40.0	99	80 - 120	P	12/06/2024	12:20	LB133790
	Potassium	1890	2000	95	80 - 120	P	12/06/2024	12:20	LB133790
	Selenium	18.0	20.0	90	80 - 120	P	12/06/2024	12:20	LB133790
	Silver	10.6	10.0	106	80 - 120	P	12/06/2024	12:20	LB133790
	Sodium	1810	2000	90	80 - 120	P	12/06/2024	12:20	LB133790
	Thallium	40.1	40.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Vanadium	39.8	40.0	100	80 - 120	P	12/06/2024	12:20	LB133790
	Zinc	42.2	40.0	105	80 - 120	P	12/06/2024	12:20	LB133790

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	10000	10000	100	90 - 110	P	12/06/2024	13:09	LB133790
	Antimony	4950	5000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Arsenic	5010	5000	100	90 - 110	P	12/06/2024	13:09	LB133790
	Barium	9800	10000	98	90 - 110	P	12/06/2024	13:09	LB133790
	Beryllium	249	250	100	90 - 110	P	12/06/2024	13:09	LB133790
	Cadmium	2520	2500	101	90 - 110	P	12/06/2024	13:09	LB133790
	Calcium	24700	25000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Chromium	1020	1000	102	90 - 110	P	12/06/2024	13:09	LB133790
	Cobalt	2510	2500	100	90 - 110	P	12/06/2024	13:09	LB133790
	Copper	1280	1250	102	90 - 110	P	12/06/2024	13:09	LB133790
	Iron	4940	5000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Lead	5020	5000	100	90 - 110	P	12/06/2024	13:09	LB133790
	Magnesium	24800	25000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Manganese	2440	2500	98	90 - 110	P	12/06/2024	13:09	LB133790
	Nickel	2510	2500	100	90 - 110	P	12/06/2024	13:09	LB133790
	Potassium	24700	25000	99	90 - 110	P	12/06/2024	13:09	LB133790
	Selenium	5060	5000	101	90 - 110	P	12/06/2024	13:09	LB133790
	Silver	1250	1250	100	90 - 110	P	12/06/2024	13:09	LB133790
	Sodium	24300	25000	97	90 - 110	P	12/06/2024	13:09	LB133790
	Thallium	5050	5000	101	90 - 110	P	12/06/2024	13:09	LB133790
	Vanadium	2500	2500	100	90 - 110	P	12/06/2024	13:09	LB133790
	Zinc	2550	2500	102	90 - 110	P	12/06/2024	13:09	LB133790
CCV02	Aluminum	9810	10000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Antimony	4850	5000	97	90 - 110	P	12/06/2024	13:38	LB133790
	Arsenic	4880	5000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Barium	9400	10000	94	90 - 110	P	12/06/2024	13:38	LB133790
	Beryllium	244	250	98	90 - 110	P	12/06/2024	13:38	LB133790
	Cadmium	2460	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Calcium	24200	25000	97	90 - 110	P	12/06/2024	13:38	LB133790
	Chromium	1010	1000	101	90 - 110	P	12/06/2024	13:38	LB133790
	Cobalt	2450	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Copper	1250	1250	100	90 - 110	P	12/06/2024	13:38	LB133790
	Iron	4810	5000	96	90 - 110	P	12/06/2024	13:38	LB133790
	Lead	4900	5000	98	90 - 110	P	12/06/2024	13:38	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Magnesium	24400	25000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Manganese	2360	2500	95	90 - 110	P	12/06/2024	13:38	LB133790
	Nickel	2450	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Potassium	23900	25000	96	90 - 110	P	12/06/2024	13:38	LB133790
	Selenium	4940	5000	99	90 - 110	P	12/06/2024	13:38	LB133790
	Silver	1230	1250	98	90 - 110	P	12/06/2024	13:38	LB133790
	Sodium	23500	25000	94	90 - 110	P	12/06/2024	13:38	LB133790
	Thallium	4910	5000	98	90 - 110	P	12/06/2024	13:38	LB133790
	Vanadium	2440	2500	98	90 - 110	P	12/06/2024	13:38	LB133790
	Zinc	2500	2500	100	90 - 110	P	12/06/2024	13:38	LB133790
CCV03	Aluminum	9820	10000	98	90 - 110	P	12/06/2024	14:42	LB133790
	Antimony	4780	5000	96	90 - 110	P	12/06/2024	14:42	LB133790
	Arsenic	4820	5000	96	90 - 110	P	12/06/2024	14:42	LB133790
	Barium	9370	10000	94	90 - 110	P	12/06/2024	14:42	LB133790
	Beryllium	245	250	98	90 - 110	P	12/06/2024	14:42	LB133790
	Cadmium	2450	2500	98	90 - 110	P	12/06/2024	14:42	LB133790
	Calcium	24200	25000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Chromium	1000	1000	100	90 - 110	P	12/06/2024	14:42	LB133790
	Cobalt	2430	2500	97	90 - 110	P	12/06/2024	14:42	LB133790
	Copper	1230	1250	99	90 - 110	P	12/06/2024	14:42	LB133790
	Iron	4770	5000	95	90 - 110	P	12/06/2024	14:42	LB133790
	Lead	4880	5000	98	90 - 110	P	12/06/2024	14:42	LB133790
	Magnesium	24300	25000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Manganese	2360	2500	94	90 - 110	P	12/06/2024	14:42	LB133790
	Nickel	2440	2500	98	90 - 110	P	12/06/2024	14:42	LB133790
	Potassium	23300	25000	93	90 - 110	P	12/06/2024	14:42	LB133790
	Selenium	4870	5000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Silver	1210	1250	97	90 - 110	P	12/06/2024	14:42	LB133790
	Sodium	24900	25000	100	90 - 110	P	12/06/2024	14:42	LB133790
	Thallium	4850	5000	97	90 - 110	P	12/06/2024	14:42	LB133790
	Vanadium	2450	2500	98	90 - 110	P	12/06/2024	14:42	LB133790
	Zinc	2470	2500	99	90 - 110	P	12/06/2024	14:42	LB133790
CCV04	Aluminum	9820	10000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Antimony	4780	5000	96	90 - 110	P	12/06/2024	15:40	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Arsenic	4870	5000	97	90 - 110	P	12/06/2024	15:40	LB133790
	Barium	9560	10000	96	90 - 110	P	12/06/2024	15:40	LB133790
	Beryllium	250	250	100	90 - 110	P	12/06/2024	15:40	LB133790
	Cadmium	2500	2500	100	90 - 110	P	12/06/2024	15:40	LB133790
	Calcium	24600	25000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Chromium	1020	1000	102	90 - 110	P	12/06/2024	15:40	LB133790
	Cobalt	2480	2500	99	90 - 110	P	12/06/2024	15:40	LB133790
	Copper	1240	1250	100	90 - 110	P	12/06/2024	15:40	LB133790
	Iron	4880	5000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Lead	4960	5000	99	90 - 110	P	12/06/2024	15:40	LB133790
	Magnesium	24800	25000	99	90 - 110	P	12/06/2024	15:40	LB133790
	Manganese	2420	2500	97	90 - 110	P	12/06/2024	15:40	LB133790
	Nickel	2480	2500	99	90 - 110	P	12/06/2024	15:40	LB133790
	Potassium	23500	25000	94	90 - 110	P	12/06/2024	15:40	LB133790
	Selenium	4910	5000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Silver	1230	1250	98	90 - 110	P	12/06/2024	15:40	LB133790
	Sodium	25600	25000	102	90 - 110	P	12/06/2024	15:40	LB133790
	Thallium	4910	5000	98	90 - 110	P	12/06/2024	15:40	LB133790
	Vanadium	2480	2500	99	90 - 110	P	12/06/2024	15:40	LB133790
	Zinc	2430	2500	97	90 - 110	P	12/06/2024	15:40	LB133790
CCV05	Aluminum	9800	10000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Antimony	4730	5000	95	90 - 110	P	12/06/2024	16:35	LB133790
	Arsenic	4810	5000	96	90 - 110	P	12/06/2024	16:35	LB133790
	Barium	9510	10000	95	90 - 110	P	12/06/2024	16:35	LB133790
	Beryllium	250	250	100	90 - 110	P	12/06/2024	16:35	LB133790
	Cadmium	2460	2500	98	90 - 110	P	12/06/2024	16:35	LB133790
	Calcium	24500	25000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Chromium	1010	1000	100	90 - 110	P	12/06/2024	16:35	LB133790
	Cobalt	2440	2500	98	90 - 110	P	12/06/2024	16:35	LB133790
	Copper	1230	1250	99	90 - 110	P	12/06/2024	16:35	LB133790
	Iron	4850	5000	97	90 - 110	P	12/06/2024	16:35	LB133790
	Lead	4890	5000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Magnesium	24500	25000	98	90 - 110	P	12/06/2024	16:35	LB133790
	Manganese	2420	2500	97	90 - 110	P	12/06/2024	16:35	LB133790

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV05	Nickel	2450	2500	98	90 - 110	P	12/06/2024	16:35	LB133790
	Potassium	23200	25000	93	90 - 110	P	12/06/2024	16:35	LB133790
	Selenium	4850	5000	97	90 - 110	P	12/06/2024	16:35	LB133790
	Silver	1220	1250	98	90 - 110	P	12/06/2024	16:35	LB133790
	Sodium	25300	25000	101	90 - 110	P	12/06/2024	16:35	LB133790
	Thallium	4820	5000	96	90 - 110	P	12/06/2024	16:35	LB133790
	Vanadium	2470	2500	99	90 - 110	P	12/06/2024	16:35	LB133790
	Zinc	2380	2500	95	90 - 110	P	12/06/2024	16:35	LB133790
CCV06	Aluminum	9980	10000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Antimony	4840	5000	97	90 - 110	P	12/06/2024	17:27	LB133790
	Arsenic	4950	5000	99	90 - 110	P	12/06/2024	17:27	LB133790
	Barium	9680	10000	97	90 - 110	P	12/06/2024	17:27	LB133790
	Beryllium	253	250	101	90 - 110	P	12/06/2024	17:27	LB133790
	Cadmium	2540	2500	102	90 - 110	P	12/06/2024	17:27	LB133790
	Calcium	24900	25000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Chromium	1030	1000	103	90 - 110	P	12/06/2024	17:27	LB133790
	Cobalt	2510	2500	100	90 - 110	P	12/06/2024	17:27	LB133790
	Copper	1260	1250	101	90 - 110	P	12/06/2024	17:27	LB133790
	Iron	4910	5000	98	90 - 110	P	12/06/2024	17:27	LB133790
	Lead	5020	5000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Magnesium	25000	25000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Manganese	2440	2500	98	90 - 110	P	12/06/2024	17:27	LB133790
	Nickel	2520	2500	101	90 - 110	P	12/06/2024	17:27	LB133790
	Potassium	23700	25000	95	90 - 110	P	12/06/2024	17:27	LB133790
	Selenium	5000	5000	100	90 - 110	P	12/06/2024	17:27	LB133790
	Silver	1250	1250	100	90 - 110	P	12/06/2024	17:27	LB133790
	Sodium	22500	25000	90	90 - 110	P	12/06/2024	17:27	LB133790
	Thallium	4930	5000	99	90 - 110	P	12/06/2024	17:27	LB133790
	Vanadium	2520	2500	101	90 - 110	P	12/06/2024	17:27	LB133790
	Zinc	2480	2500	99	90 - 110	P	12/06/2024	17:27	LB133790
CCV07	Aluminum	9730	10000	97	90 - 110	P	12/06/2024	18:21	LB133790
	Antimony	4710	5000	94	90 - 110	P	12/06/2024	18:21	LB133790
	Arsenic	4810	5000	96	90 - 110	P	12/06/2024	18:21	LB133790
	Barium	9300	10000	93	90 - 110	P	12/06/2024	18:21	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: New York City DEP of Environmental Protection/ **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
CCV07	Beryllium	251	250	101	90 - 110	P	12/06/2024	18:21	LB133790
	Cadmium	2490	2500	100	90 - 110	P	12/06/2024	18:21	LB133790
	Calcium	24400	25000	98	90 - 110	P	12/06/2024	18:21	LB133790
	Chromium	1010	1000	101	90 - 110	P	12/06/2024	18:21	LB133790
	Cobalt	2470	2500	99	90 - 110	P	12/06/2024	18:21	LB133790
	Copper	1230	1250	99	90 - 110	P	12/06/2024	18:21	LB133790
	Iron	4760	5000	95	90 - 110	P	12/06/2024	18:21	LB133790
	Lead	4930	5000	99	90 - 110	P	12/06/2024	18:21	LB133790
	Magnesium	24500	25000	98	90 - 110	P	12/06/2024	18:21	LB133790
	Manganese	2400	2500	96	90 - 110	P	12/06/2024	18:21	LB133790
	Nickel	2470	2500	99	90 - 110	P	12/06/2024	18:21	LB133790
	Potassium	22800	25000	91	90 - 110	P	12/06/2024	18:21	LB133790
	Selenium	4860	5000	97	90 - 110	P	12/06/2024	18:21	LB133790
	Silver	1220	1250	98	90 - 110	P	12/06/2024	18:21	LB133790
	Sodium	26000	25000	104	90 - 110	P	12/06/2024	18:21	LB133790
	Thallium	4870	5000	97	90 - 110	P	12/06/2024	18:21	LB133790
	Vanadium	2460	2500	98	90 - 110	P	12/06/2024	18:21	LB133790
	Zinc	2440	2500	98	90 - 110	P	12/06/2024	18:21	LB133790

Alliance TECHNICAL GROUP
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CRDL STANDARD FOR AA & ICP

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	99.1	100	99	40 - 160	P	12/05/2024	14:14	LB133769
	Antimony	45.8	50.0	92	40 - 160	P	12/05/2024	14:14	LB133769
	Arsenic	20.0	20.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Barium	102	100	102	40 - 160	P	12/05/2024	14:14	LB133769
	Beryllium	6.35	6.0	106	40 - 160	P	12/05/2024	14:14	LB133769
	Cadmium	6.02	6.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Calcium	2110	2000	105	40 - 160	P	12/05/2024	14:14	LB133769
	Chromium	9.82	10.0	98	40 - 160	P	12/05/2024	14:14	LB133769
	Cobalt	30.3	30.0	101	40 - 160	P	12/05/2024	14:14	LB133769
	Copper	21.6	20.0	108	40 - 160	P	12/05/2024	14:14	LB133769
	Iron	99.2	100	99	40 - 160	P	12/05/2024	14:14	LB133769
	Lead	11.8	12.0	98	40 - 160	P	12/05/2024	14:14	LB133769
	Magnesium	2190	2000	110	40 - 160	P	12/05/2024	14:14	LB133769
	Manganese	21.7	20.0	108	40 - 160	P	12/05/2024	14:14	LB133769
	Nickel	40.2	40.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Potassium	1880	2000	94	40 - 160	P	12/05/2024	14:14	LB133769
	Selenium	18.9	20.0	95	40 - 160	P	12/05/2024	14:14	LB133769
	Silver	10.0	10.0	100	40 - 160	P	12/05/2024	14:14	LB133769
	Sodium	1940	2000	97	40 - 160	P	12/05/2024	14:14	LB133769
	Thallium	43.9	40.0	110	40 - 160	P	12/05/2024	14:14	LB133769
	Vanadium	43.1	40.0	108	40 - 160	P	12/05/2024	14:14	LB133769
	Zinc	42.8	40.0	107	40 - 160	P	12/05/2024	14:14	LB133769
CRI01	Aluminum	105	100	104	40 - 160	P	12/06/2024	12:28	LB133790
	Antimony	50.1	50.0	100	40 - 160	P	12/06/2024	12:28	LB133790
	Arsenic	20.2	20.0	101	40 - 160	P	12/06/2024	12:28	LB133790
	Barium	97.5	100	98	40 - 160	P	12/06/2024	12:28	LB133790
	Beryllium	6.20	6.0	103	40 - 160	P	12/06/2024	12:28	LB133790
	Cadmium	5.89	6.0	98	40 - 160	P	12/06/2024	12:28	LB133790
	Calcium	2060	2000	103	40 - 160	P	12/06/2024	12:28	LB133790
	Chromium	10.0	10.0	100	40 - 160	P	12/06/2024	12:28	LB133790
	Cobalt	29.5	30.0	98	40 - 160	P	12/06/2024	12:28	LB133790
	Copper	22.0	20.0	110	40 - 160	P	12/06/2024	12:28	LB133790
	Iron	96.6	100	97	40 - 160	P	12/06/2024	12:28	LB133790
	Lead	11.1	12.0	93	40 - 160	P	12/06/2024	12:28	LB133790
	Magnesium	2160	2000	108	40 - 160	P	12/06/2024	12:28	LB133790
	Manganese	21.0	20.0	105	40 - 160	P	12/06/2024	12:28	LB133790

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Metals

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CRDL STANDARD FOR AA & ICP

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Nickel	40.0	40.0	100	40 - 160	P	12/06/2024	12:28	LB133790
	Potassium	1910	2000	96	40 - 160	P	12/06/2024	12:28	LB133790
	Selenium	19.8	20.0	99	40 - 160	P	12/06/2024	12:28	LB133790
	Silver	10.3	10.0	103	40 - 160	P	12/06/2024	12:28	LB133790
	Sodium	1810	2000	90	40 - 160	P	12/06/2024	12:28	LB133790
	Thallium	41.4	40.0	104	40 - 160	P	12/06/2024	12:28	LB133790
	Vanadium	40.3	40.0	101	40 - 160	P	12/06/2024	12:28	LB133790
	Zinc	42.4	40.0	106	40 - 160	P	12/06/2024	12:28	LB133790
CRA	Mercury	0.038	0.05	76	40 - 160	CV	12/10/2024	10:39	LB133852

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB14	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	10:17	LB133852

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	10:34	LB133852
CCB11	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	11:31	LB133852
CCB12	Mercury	0.20	+/-0.20	U	0.20	CV	12/10/2024	11:49	LB133852

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/05/2024	14:10	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	14:10	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	14:10	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:10	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:10	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	14:10	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	14:10	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	14:10	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	14:10	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	14:10	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	14:10	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	14:10	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	14:10	LB133769

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/05/2024	14:50	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	14:50	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	14:50	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:50	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	14:50	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	14:50	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	14:50	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	14:50	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	14:50	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	14:50	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	14:50	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	14:50	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	14:50	LB133769
CCB02	Aluminum	100	+/-100	U	100	P	12/05/2024	15:41	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	15:41	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	15:41	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	15:41	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	15:41	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	15:41	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	15:41	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	15:41	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	15:41	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	15:41	LB133769

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	15:41	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	15:41	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	15:41	LB133769
CCB03	Aluminum	100	+/-100	U	100	P	12/05/2024	16:46	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	16:46	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	16:46	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	16:46	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	16:46	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	16:46	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	16:46	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	16:46	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	16:46	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	16:46	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	16:46	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	16:46	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	16:46	LB133769
CCB04	Aluminum	100	+/-100	U	100	P	12/05/2024	17:47	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	17:47	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	17:47	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	17:47	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	17:47	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	17:47	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	17:47	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	17:47	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	17:47	LB133769

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	17:47	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	17:47	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	17:47	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	17:47	LB133769
CCB05	Aluminum	100	+/-100	U	100	P	12/05/2024	18:43	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	18:43	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	18:43	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	18:43	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	18:43	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	18:43	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	18:43	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	18:43	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	18:43	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	18:43	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	18:43	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	18:43	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	18:43	LB133769
CCB06	Aluminum	100	+/-100	U	100	P	12/05/2024	19:50	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	19:50	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	19:50	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	19:50	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	19:50	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	19:50	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	19:50	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	19:50	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	19:50	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	19:50	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	19:50	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	19:50	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	19:50	LB133769
CCB07	Aluminum	100	+/-100	U	100	P	12/05/2024	20:27	LB133769
	Antimony	50.0	+/-50.0	U	50.0	P	12/05/2024	20:27	LB133769
	Arsenic	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Barium	100	+/-100	U	100	P	12/05/2024	20:27	LB133769
	Beryllium	6.00	+/-6.00	U	6.00	P	12/05/2024	20:27	LB133769
	Cadmium	6.00	+/-6.00	U	6.00	P	12/05/2024	20:27	LB133769
	Calcium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Chromium	10.0	+/-10.0	U	10.0	P	12/05/2024	20:27	LB133769
	Cobalt	30.0	+/-30.0	U	30.0	P	12/05/2024	20:27	LB133769
	Copper	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Iron	100	+/-100	U	100	P	12/05/2024	20:27	LB133769
	Lead	12.0	+/-12.0	U	12.0	P	12/05/2024	20:27	LB133769
	Magnesium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Manganese	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Nickel	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769
	Potassium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Selenium	20.0	+/-20.0	U	20.0	P	12/05/2024	20:27	LB133769
	Silver	10.0	+/-10.0	U	10.0	P	12/05/2024	20:27	LB133769
	Sodium	2000	+/-2000	U	2000	P	12/05/2024	20:27	LB133769
	Thallium	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769
	Vanadium	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769
	Zinc	40.0	+/-40.0	U	40.0	P	12/05/2024	20:27	LB133769

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/06/2024	12:24	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	12:24	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	12:24	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	12:24	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	12:24	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	12:24	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	12:24	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	12:24	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	12:24	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	12:24	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	12:24	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	12:24	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	12:24	LB133790

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/06/2024	13:13	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	13:13	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	13:13	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:13	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:13	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	13:13	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	13:13	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	13:13	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	13:13	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	13:13	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	13:13	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	13:13	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	13:13	LB133790
CCB02	Aluminum	100	+/-100	U	100	P	12/06/2024	13:42	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	13:42	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	13:42	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:42	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	13:42	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	13:42	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	13:42	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	13:42	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	13:42	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	13:42	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	13:42	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	13:42	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	13:42	LB133790
CCB03	Aluminum	100	+/-100	U	100	P	12/06/2024	14:46	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	14:46	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	14:46	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	14:46	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	14:46	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	14:46	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	14:46	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	14:46	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	14:46	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	14:46	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	14:46	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	14:46	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	14:46	LB133790
CCB04	Aluminum	100	+/-100	U	100	P	12/06/2024	15:44	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	15:44	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	15:44	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	15:44	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	15:44	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	15:44	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	15:44	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	15:44	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	15:44	LB133790

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	15:44	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	15:44	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	15:44	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	15:44	LB133790
CCB05	Aluminum	100	+/-100	U	100	P	12/06/2024	16:39	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	16:39	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	16:39	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	16:39	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	16:39	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	16:39	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	16:39	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	16:39	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	16:39	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	16:39	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	16:39	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	16:39	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	16:39	LB133790
CCB06	Aluminum	100	+/-100	U	100	P	12/06/2024	17:31	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	17:31	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	17:31	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	17:31	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	17:31	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	17:31	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	17:31	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	17:31	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	17:31	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	17:31	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	17:31	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	17:31	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	17:31	LB133790
CCB07	Aluminum	100	+/-100	U	100	P	12/06/2024	18:27	LB133790
	Antimony	50.0	+/-50.0	U	50.0	P	12/06/2024	18:27	LB133790
	Arsenic	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Barium	100	+/-100	U	100	P	12/06/2024	18:27	LB133790
	Beryllium	6.00	+/-6.00	U	6.00	P	12/06/2024	18:27	LB133790
	Cadmium	6.00	+/-6.00	U	6.00	P	12/06/2024	18:27	LB133790
	Calcium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Chromium	10.0	+/-10.0	U	10.0	P	12/06/2024	18:27	LB133790
	Cobalt	30.0	+/-30.0	U	30.0	P	12/06/2024	18:27	LB133790
	Copper	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Iron	100	+/-100	U	100	P	12/06/2024	18:27	LB133790
	Lead	12.0	+/-12.0	U	12.0	P	12/06/2024	18:27	LB133790
	Magnesium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Manganese	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Nickel	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790
	Potassium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Selenium	20.0	+/-20.0	U	20.0	P	12/06/2024	18:27	LB133790
	Silver	10.0	+/-10.0	U	10.0	P	12/06/2024	18:27	LB133790
	Sodium	2000	+/-2000	U	2000	P	12/06/2024	18:27	LB133790
	Thallium	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790
	Vanadium	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790
	Zinc	40.0	+/-40.0	U	40.0	P	12/06/2024	18:27	LB133790

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PREPARATION BLANK SUMMARY

Client: New York City DEP of Environmental Protecti **SDG No.:** P5051

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165519BL		**WATER**		**Batch Number:**	**PB165519**		**Prep Date:**	**12/10/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	12/10/2024	10:53	LB133852

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PREPARATION BLANK SUMMARY

Client: New York City DEP of Environmental Protecti **SDG No.:** P5051

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165365BL		**WATER**		**Batch Number:**	**PB165365**		**Prep Date:**	**12/04/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	12/05/2024	19:04	LB133769
	Antimony	25.0	<25.0	U	25.0	P	12/05/2024	19:04	LB133769
	Arsenic	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Barium	50.0	<50.0	U	50.0	P	12/05/2024	19:04	LB133769
	Beryllium	3.00	<3.00	U	3.00	P	12/05/2024	19:04	LB133769
	Cadmium	3.00	<3.00	U	3.00	P	12/05/2024	19:04	LB133769
	Calcium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Chromium	5.00	<5.00	U	5.00	P	12/05/2024	19:04	LB133769
	Cobalt	15.0	<15.0	U	15.0	P	12/05/2024	19:04	LB133769
	Copper	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Iron	50.0	<50.0	U	50.0	P	12/05/2024	19:04	LB133769
	Lead	6.00	<6.00	U	6.00	P	12/05/2024	19:04	LB133769
	Magnesium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Manganese	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Nickel	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769
	Potassium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Selenium	10.0	<10.0	U	10.0	P	12/05/2024	19:04	LB133769
	Silver	5.00	<5.00	U	5.00	P	12/05/2024	19:04	LB133769
	Sodium	1000	<1000	U	1000	P	12/05/2024	19:04	LB133769
	Thallium	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769
	Vanadium	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769
	Zinc	20.0	<20.0	U	20.0	P	12/05/2024	19:04	LB133769

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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	Aluminum	272000	255000	107	216000	294000	12/05/2024	14:18	LB133769
	Antimony	-2.09			-50	50	12/05/2024	14:18	LB133769
	Arsenic	6.49			-20	20	12/05/2024	14:18	LB133769
	Barium	5.08	6.0	85	-94	106	12/05/2024	14:18	LB133769
	Beryllium	1.48			-6	6	12/05/2024	14:18	LB133769
	Cadmium	6.34	1.0	634	-5	7	12/05/2024	14:18	LB133769
	Calcium	261000	245000	106	208000	282000	12/05/2024	14:18	LB133769
	Chromium	57.9	52.0	111	42	62	12/05/2024	14:18	LB133769
	Cobalt	2.71			-30	30	12/05/2024	14:18	LB133769
	Copper	4.69	2.0	234	-18	22	12/05/2024	14:18	LB133769
	Iron	101000	101000	100	85600	116500	12/05/2024	14:18	LB133769
	Lead	7.21			-12	12	12/05/2024	14:18	LB133769
	Magnesium	283000	255000	111	216000	294000	12/05/2024	14:18	LB133769
	Manganese	1.73	7.0	25	-13	27	12/05/2024	14:18	LB133769
	Nickel	0.60	2.0	30	-38	42	12/05/2024	14:18	LB133769
	Potassium	41.3			0	0	12/05/2024	14:18	LB133769
	Selenium	-19.1			-20	20	12/05/2024	14:18	LB133769
	Silver	-5.85			-10	10	12/05/2024	14:18	LB133769
	Sodium	78.0			0	0	12/05/2024	14:18	LB133769
	Thallium	13.8			-40	40	12/05/2024	14:18	LB133769
	Vanadium	11.4			-40	40	12/05/2024	14:18	LB133769
	Zinc	8.24			-40	40	12/05/2024	14:18	LB133769
ICSAB01	Aluminum	253000	247000	102	209000	285000	12/05/2024	14:33	LB133769
	Antimony	590	618	96	525	711	12/05/2024	14:33	LB133769
	Arsenic	108	104	104	88.4	120	12/05/2024	14:33	LB133769
	Barium	515	537	96	437	637	12/05/2024	14:33	LB133769
	Beryllium	512	495	103	420	570	12/05/2024	14:33	LB133769
	Cadmium	991	972	102	826	1120	12/05/2024	14:33	LB133769
	Calcium	238000	235000	101	199000	271000	12/05/2024	14:33	LB133769
	Chromium	545	542	101	460	624	12/05/2024	14:33	LB133769
	Cobalt	499	476	105	404	548	12/05/2024	14:33	LB133769
	Copper	462	511	90	434	588	12/05/2024	14:33	LB133769
	Iron	93900	99300	95	84400	114500	12/05/2024	14:33	LB133769
	Lead	59.3	49.0	121	37	61	12/05/2024	14:33	LB133769
	Magnesium	259000	248000	104	210000	286000	12/05/2024	14:33	LB133769
	Manganese	496	507	98	430	584	12/05/2024	14:33	LB133769
	Nickel	1020	954	107	810	1100	12/05/2024	14:33	LB133769
	Potassium	28.1			0	0	12/05/2024	14:33	LB133769
	Selenium	32.5	46.0	71	26	66	12/05/2024	14:33	LB133769
	Silver	190	201	94	170	232	12/05/2024	14:33	LB133769
	Sodium	93.7			0	0	12/05/2024	14:33	LB133769
	Thallium	92.2	108	85	68	148	12/05/2024	14:33	LB133769

Alliance TECHNICAL GROUP
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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
ICSAB01	Vanadium	498	491	101	417	565	12/05/2024	14:33	LB133769
	Zinc	953	952	100	809	1095	12/05/2024	14:33	LB133769
ICSA	Aluminum	258000	255000	101	216000	294000	12/05/2024	14:37	LB133769
	Antimony	-47.6			-50	50	12/05/2024	14:37	LB133769
	Arsenic	-11.5			-20	20	12/05/2024	14:37	LB133769
	Barium	-19.2	6.0	320	-94	106	12/05/2024	14:37	LB133769
	Beryllium	2.10			-6	6	12/05/2024	14:37	LB133769
	Cadmium	1.10	1.0	110	-5	7	12/05/2024	14:37	LB133769
	Calcium	257000	245000	105	208000	282000	12/05/2024	14:37	LB133769
	Chromium	51.3	52.0	99	42	62	12/05/2024	14:37	LB133769
	Cobalt	3.32			-30	30	12/05/2024	14:37	LB133769
	Copper	-1.04	2.0	52	-18	22	12/05/2024	14:37	LB133769
	Iron	101000	101000	100	85600	116500	12/05/2024	14:37	LB133769
	Lead	12.2			-12	12	12/05/2024	14:37	LB133769
	Magnesium	262000	255000	103	216000	294000	12/05/2024	14:37	LB133769
	Manganese	3.37	7.0	48	-13	27	12/05/2024	14:37	LB133769
	Nickel	-2.58	2.0	129	-38	42	12/05/2024	14:37	LB133769
	Potassium	-671			0	0	12/05/2024	14:37	LB133769
	Selenium	-22.5			-20	20	12/05/2024	14:37	LB133769
	Silver	3.21			-10	10	12/05/2024	14:37	LB133769
	Sodium	423			0	0	12/05/2024	14:37	LB133769
	Thallium	-14.7			-40	40	12/05/2024	14:37	LB133769
	Vanadium	37.2			-40	40	12/05/2024	14:37	LB133769
	Zinc	9.03			-40	40	12/05/2024	14:37	LB133769
ICSAB	Aluminum	257000	247000	104	209000	285000	12/05/2024	14:41	LB133769
	Antimony	558	618	90	525	711	12/05/2024	14:41	LB133769
	Arsenic	69.6	104	67	88.4	120	12/05/2024	14:41	LB133769
	Barium	522	537	97	437	637	12/05/2024	14:41	LB133769
	Beryllium	545	495	110	420	570	12/05/2024	14:41	LB133769
	Cadmium	1030	972	106	826	1120	12/05/2024	14:41	LB133769
	Calcium	256000	235000	109	199000	271000	12/05/2024	14:41	LB133769
	Chromium	597	542	110	460	624	12/05/2024	14:41	LB133769
	Cobalt	511	476	107	404	548	12/05/2024	14:41	LB133769
	Copper	518	511	101	434	588	12/05/2024	14:41	LB133769
	Iron	99800	99300	100	84400	114500	12/05/2024	14:41	LB133769
	Lead	44.7	49.0	91	37	61	12/05/2024	14:41	LB133769
	Magnesium	261000	248000	105	210000	286000	12/05/2024	14:41	LB133769
	Manganese	538	507	106	430	584	12/05/2024	14:41	LB133769
	Nickel	1030	954	108	810	1100	12/05/2024	14:41	LB133769
	Potassium	-884			0	0	12/05/2024	14:41	LB133769
	Selenium	23.2	46.0	50	26	66	12/05/2024	14:41	LB133769
	Silver	192	201	96	170	232	12/05/2024	14:41	LB133769

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
ICSAB	Sodium	156			0	0	12/05/2024	14:41	LB133769
	Thallium	101	108	94	68	148	12/05/2024	14:41	LB133769
	Vanadium	521	491	106	417	565	12/05/2024	14:41	LB133769
	Zinc	1090	952	114	809	1095	12/05/2024	14:41	LB133769
ICSA01	Aluminum	267000	255000	105	216000	294000	12/06/2024	12:50	LB133790
	Antimony	-2.00			-50	50	12/06/2024	12:50	LB133790
	Arsenic	6.39			-20	20	12/06/2024	12:50	LB133790
	Barium	1.82	6.0	30	-94	106	12/06/2024	12:50	LB133790
	Beryllium	1.48			-6	6	12/06/2024	12:50	LB133790
	Cadmium	4.33	1.0	433	-5	7	12/06/2024	12:50	LB133790
	Calcium	250000	245000	102	208000	282000	12/06/2024	12:50	LB133790
	Chromium	58.3	52.0	112	42	62	12/06/2024	12:50	LB133790
	Cobalt	2.43			-30	30	12/06/2024	12:50	LB133790
	Copper	-0.59	2.0	30	-18	22	12/06/2024	12:50	LB133790
	Iron	101000	101000	100	85600	116500	12/06/2024	12:50	LB133790
	Lead	11.9			-12	12	12/06/2024	12:50	LB133790
	Magnesium	273000	255000	107	216000	294000	12/06/2024	12:50	LB133790
	Manganese	4.87	7.0	70	-13	27	12/06/2024	12:50	LB133790
	Nickel	32.9	2.0	1645	-38	42	12/06/2024	12:50	LB133790
	Potassium	14.1			0	0	12/06/2024	12:50	LB133790
	Selenium	-18.6			-20	20	12/06/2024	12:50	LB133790
	Silver	-1.23			-10	10	12/06/2024	12:50	LB133790
	Sodium	120			0	0	12/06/2024	12:50	LB133790
	Thallium	-2.74			-40	40	12/06/2024	12:50	LB133790
	Vanadium	8.34			-40	40	12/06/2024	12:50	LB133790
	Zinc	-6.25			-40	40	12/06/2024	12:50	LB133790
ICSAB01	Aluminum	264000	247000	107	209000	285000	12/06/2024	12:55	LB133790
	Antimony	608	618	98	525	711	12/06/2024	12:55	LB133790
	Arsenic	106	104	102	88.4	120	12/06/2024	12:55	LB133790
	Barium	501	537	93	437	637	12/06/2024	12:55	LB133790
	Beryllium	507	495	102	420	570	12/06/2024	12:55	LB133790
	Cadmium	1010	972	104	826	1120	12/06/2024	12:55	LB133790
	Calcium	246000	235000	105	199000	271000	12/06/2024	12:55	LB133790
	Chromium	561	542	104	460	624	12/06/2024	12:55	LB133790
	Cobalt	508	476	107	404	548	12/06/2024	12:55	LB133790
	Copper	486	511	95	434	588	12/06/2024	12:55	LB133790
	Iron	99200	99300	100	84400	114500	12/06/2024	12:55	LB133790
	Lead	60.5	49.0	124	37	61	12/06/2024	12:55	LB133790
	Magnesium	268000	248000	108	210000	286000	12/06/2024	12:55	LB133790
	Manganese	495	507	98	430	584	12/06/2024	12:55	LB133790
	Nickel	1030	954	108	810	1100	12/06/2024	12:55	LB133790
	Potassium	-35.5			0	0	12/06/2024	12:55	LB133790

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
ICSAB01	Selenium	33.1	46.0	72	26	66	12/06/2024	12:55	LB133790
	Silver	196	201	98	170	232	12/06/2024	12:55	LB133790
	Sodium	104			0	0	12/06/2024	12:55	LB133790
	Thallium	81.4	108	75	68	148	12/06/2024	12:55	LB133790
	Vanadium	501	491	102	417	565	12/06/2024	12:55	LB133790
	Zinc	942	952	99	809	1095	12/06/2024	12:55	LB133790
ICSA	Aluminum	249000	255000	98	216000	294000	12/06/2024	13:00	LB133790
	Antimony	-7.98			-50	50	12/06/2024	13:00	LB133790
	Arsenic	-32.4			-20	20	12/06/2024	13:00	LB133790
	Barium	-61.5	6.0	1025	-94	106	12/06/2024	13:00	LB133790
	Beryllium	3.42			-6	6	12/06/2024	13:00	LB133790
	Cadmium	2.74	1.0	274	-5	7	12/06/2024	13:00	LB133790
	Calcium	246000	245000	100	208000	282000	12/06/2024	13:00	LB133790
	Chromium	58.9	52.0	113	42	62	12/06/2024	13:00	LB133790
	Cobalt	3.44			-30	30	12/06/2024	13:00	LB133790
	Copper	0.47	2.0	23	-18	22	12/06/2024	13:00	LB133790
	Iron	96500	101000	96	85600	116500	12/06/2024	13:00	LB133790
	Lead	-15.2			-12	12	12/06/2024	13:00	LB133790
	Magnesium	252000	255000	99	216000	294000	12/06/2024	13:00	LB133790
	Manganese	2.53	7.0	36	-13	27	12/06/2024	13:00	LB133790
	Nickel	31.5	2.0	1575	-38	42	12/06/2024	13:00	LB133790
	Potassium	-1660			0	0	12/06/2024	13:00	LB133790
	Selenium	-11.4			-20	20	12/06/2024	13:00	LB133790
	Silver	9.42			-10	10	12/06/2024	13:00	LB133790
	Sodium	475			0	0	12/06/2024	13:00	LB133790
	Thallium	-11.5			-40	40	12/06/2024	13:00	LB133790
	Vanadium	3.28			-40	40	12/06/2024	13:00	LB133790
	Zinc	132			-40	40	12/06/2024	13:00	LB133790
ICSAB	Aluminum	254000	247000	103	209000	285000	12/06/2024	13:04	LB133790
	Antimony	579	618	94	525	711	12/06/2024	13:04	LB133790
	Arsenic	107	104	103	88.4	120	12/06/2024	13:04	LB133790
	Barium	440	537	82	437	637	12/06/2024	13:04	LB133790
	Beryllium	526	495	106	420	570	12/06/2024	13:04	LB133790
	Cadmium	1010	972	104	826	1120	12/06/2024	13:04	LB133790
	Calcium	250000	235000	106	199000	271000	12/06/2024	13:04	LB133790
	Chromium	585	542	108	460	624	12/06/2024	13:04	LB133790
	Cobalt	504	476	106	404	548	12/06/2024	13:04	LB133790
	Copper	522	511	102	434	588	12/06/2024	13:04	LB133790
	Iron	97400	99300	98	84400	114500	12/06/2024	13:04	LB133790
	Lead	50.0	49.0	102	37	61	12/06/2024	13:04	LB133790
	Magnesium	257000	248000	104	210000	286000	12/06/2024	13:04	LB133790
	Manganese	511	507	101	430	584	12/06/2024	13:04	LB133790

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Metals
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INTERFERENCE CHECK SAMPLE

Client: New York City DEP of Environmental Protection/B **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
ICSAB	Nickel	1050	954	110	810	1100	12/06/2024	13:04	LB133790
	Potassium	-1380			0	0	12/06/2024	13:04	LB133790
	Selenium	59.2	46.0	129	26	66	12/06/2024	13:04	LB133790
	Silver	193	201	96	170	232	12/06/2024	13:04	LB133790
	Sodium	520			0	0	12/06/2024	13:04	LB133790
	Thallium	80.1	108	74	68	148	12/06/2024	13:04	LB133790
	Vanadium	512	491	104	417	565	12/06/2024	13:04	LB133790
	Zinc	1200	952	126	809	1095	12/06/2024	13:04	LB133790

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5068-07 **client id:** 14B-(1-4)-COMPMS

Percent Solids for Sample: NA **Spiked ID:** P5068-07MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	908000		849000		1000	5916		P
Antimony	ug/L	75 - 125	287		25.0	U	400	72	N	P
Arsenic	ug/L	75 - 125	492		81.0		400	103		P
Barium	ug/L	75 - 125	816		658		100	157		P
Beryllium	ug/L	75 - 125	108		3.00	U	100	108		P
Cadmium	ug/L	75 - 125	103		3.07		100	100		P
Calcium	ug/L	75 - 125	41000		37900		500	625		P
Chromium	ug/L	75 - 125	219		21.8		200	99		P
Cobalt	ug/L	75 - 125	109		8.61	J	100	101		P
Copper	ug/L	75 - 125	720		562		150	106		P
Iron	ug/L	75 - 125	39500		36100		1500	228		P
Lead	ug/L	75 - 125	470		22.6		500	90		P
Magnesium	ug/L	75 - 125	10000		8490		1000	155		P
Manganese	ug/L	75 - 125	26600	D	25900	D	100	660		P
Nickel	ug/L	75 - 125	272		25.3		250	99		P
Potassium	ug/L	75 - 125	9450		3350		5000	122		P
Selenium	ug/L	75 - 125	1040		10.1		1000	103		P
Silver	ug/L	75 - 125	47.3		3.01	J	37.5	118		P
Sodium	ug/L	75 - 125	38100		34400		1500	246		P
Thallium	ug/L	75 - 125	822		20.0	U	1000	82		P
Vanadium	ug/L	75 - 125	191		36.5		150	103		P
Zinc	ug/L	75 - 125	260		142		100	119		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5068-07 **client id:** 14B-(1-4)-COMPMSD

Percent Solids for Sample: NA **Spiked ID:** P5068-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	911000		849000		1000	6245		P
Antimony	ug/L	75 - 125	283		25.0	U	400	71	N	P
Arsenic	ug/L	75 - 125	492		81.0		400	103		P
Barium	ug/L	75 - 125	802		658		100	143		P
Beryllium	ug/L	75 - 125	107		3.00	U	100	107		P
Cadmium	ug/L	75 - 125	102		3.07		100	99		P
Calcium	ug/L	75 - 125	40600		37900		500	558		P
Chromium	ug/L	75 - 125	216		21.8		200	97		P
Cobalt	ug/L	75 - 125	107		8.61	J	100	99		P
Copper	ug/L	75 - 125	713		562		150	101		P
Iron	ug/L	75 - 125	39000		36100		1500	194		P
Lead	ug/L	75 - 125	467		22.6		500	89		P
Magnesium	ug/L	75 - 125	9950		8490		1000	147		P
Manganese	ug/L	75 - 125	26800	D	25900	D	100	866		P
Nickel	ug/L	75 - 125	267		25.3		250	97		P
Potassium	ug/L	75 - 125	9280		3350		5000	119		P
Selenium	ug/L	75 - 125	1030		10.1		1000	102		P
Silver	ug/L	75 - 125	46.9		3.01	J	37.5	117		P
Sodium	ug/L	75 - 125	37400		34400		1500	198		P
Thallium	ug/L	75 - 125	817		20.0	U	1000	82		P
Vanadium	ug/L	75 - 125	189		36.5		150	102		P
Zinc	ug/L	75 - 125	257		142		100	115		P

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metals
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MATRIX SPIKE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5192-02 **client id:** EFF-WASTE WATERMS

Percent Solids for Sample: NA **Spiked ID:** P5192-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.62		0.20	U	4.0	90		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: New York City DEP of Environmental Prot **level:** low **sdg no.:** P5051

contract: NEWY17 **lab code:** CHEM **case no.:** P5051 **sas no.:** P5051

matrix: Water **sample id:** P5192-02 **client id:** EFF-WASTE WATERMSD

Percent Solids for Sample: NA **Spiked ID:** P5192-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.93		0.20	U	4.0	98		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Level:** LOW **Client ID:** 14B-(1-4)-COMPA

Sample ID: P5068-07 **Spiked ID:** P5068-07A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	85 - 115	284		25.0	U	400	71		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5068-07 **Client ID:** 14B-(1-4)-COMPDUP

Percent Solids for Sample: NA **Duplicate ID** P5068-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	849000		863000		2		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	81.0		81.9		1		P
Barium	ug/L	20	658		655		0		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.07		3.33		8		P
Calcium	ug/L	20	37900		38000		0		P
Chromium	ug/L	20	21.8		22.1		1		P
Cobalt	ug/L	20	8.61	J	8.69	J	1		P
Copper	ug/L	20	562		571		2		P
Iron	ug/L	20	36100		36100		0		P
Lead	ug/L	20	22.6		21.9		3		P
Magnesium	ug/L	20	8490		8540		1		P
Manganese	ug/L	20	25900	D	27000	D	4		P
Nickel	ug/L	20	25.3		25.6		1		P
Potassium	ug/L	20	3350		3380		1		P
Selenium	ug/L	20	10.1		10.8		7		P
Silver	ug/L	20	3.01	J	3.04	J	1		P
Sodium	ug/L	20	34400		34200		1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	36.5		36.6		0		P
Zinc	ug/L	20	142		144		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5068-07MS **Client ID:** 14B-(1-4)-COMPMSD

Percent Solids for Sample: NA **Duplicate ID** P5068-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	908000		911000		0		P
Antimony	ug/L	20	287		283		1		P
Arsenic	ug/L	20	492		492		0		P
Barium	ug/L	20	816		802		2		P
Beryllium	ug/L	20	108		107		1		P
Cadmium	ug/L	20	103		102		1		P
Calcium	ug/L	20	41000		40600		1		P
Chromium	ug/L	20	219		216		1		P
Cobalt	ug/L	20	109		107		2		P
Copper	ug/L	20	720		713		1		P
Iron	ug/L	20	39500		39000		1		P
Lead	ug/L	20	470		467		1		P
Magnesium	ug/L	20	10000		9950		1		P
Manganese	ug/L	20	26600	D	26800	D	1		P
Nickel	ug/L	20	272		267		2		P
Potassium	ug/L	20	9450		9280		2		P
Selenium	ug/L	20	1040		1030		1		P
Silver	ug/L	20	47.3		46.9		1		P
Sodium	ug/L	20	38100		37400		2		P
Thallium	ug/L	20	822		817		1		P
Vanadium	ug/L	20	191		189		1		P
Zinc	ug/L	20	260		257		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5192-02 **Client ID:** EFF-WASTE WATERDUP

Percent Solids for Sample: NA **Duplicate ID** P5192-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **Level:** LOW **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Matrix: Water **Sample ID:** P5192-02MS **Client ID:** EFF-WASTE WATERMSD

Percent Solids for Sample: NA **Duplicate ID** P5192-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.62		3.93		8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165365BS							
Aluminum	ug/L	1000	962		96	85 - 115	P
Antimony	ug/L	400	358		90	85 - 115	P
Arsenic	ug/L	400	360		90	85 - 115	P
Barium	ug/L	100	96.2		96	85 - 115	P
Beryllium	ug/L	100	93.4		93	85 - 115	P
Cadmium	ug/L	100	102		102	85 - 115	P
Calcium	ug/L	500	557	J	111	85 - 115	P
Chromium	ug/L	200	214		107	85 - 115	P
Cobalt	ug/L	100	102		102	85 - 115	P
Copper	ug/L	150	145		97	85 - 115	P
Iron	ug/L	1500	1450		97	85 - 115	P
Lead	ug/L	500	501		100	85 - 115	P
Magnesium	ug/L	1000	1050		105	85 - 115	P
Manganese	ug/L	100	108		108	85 - 115	P
Nickel	ug/L	250	255		102	85 - 115	P
Potassium	ug/L	5000	4900		98	85 - 115	P
Selenium	ug/L	1000	901		90	85 - 115	P
Silver	ug/L	37.5	37.1		99	85 - 115	P
Sodium	ug/L	1500	1280		85	85 - 115	P
Thallium	ug/L	1000	1020		102	85 - 115	P
Vanadium	ug/L	150	157		105	85 - 115	P
Zinc	ug/L	100	101		101	85 - 115	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165519BS							
Mercury	ug/L	4.0	3.96		99	85 - 115	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

14B-(1-4)-COMPL

Lab Name: Chemtech Consulting Group **Contract:** NEWY17

Lab Code: CHEM **Lb No.:** lb133790 **Lab Sample ID :** P5068-07L **SDG No.:** P5051

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	849000		895000		6		P
Antimony	25.0	U	125	U			P
Arsenic	81.0		74.3		8		P
Barium	658		645		2		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.07		2.23	J	27		P
Calcium	37900		39000		3		P
Chromium	21.8		22.9	J	5		P
Cobalt	8.61	J	8.80	J	2		P
Copper	562		642		14		P
Iron	36100		35300		2		P
Lead	22.6		35.2		55		P
Magnesium	8490		8720		3		P
Manganese	24200	OR	25800		6		P
Nickel	25.3		26.4	J	5		P
Potassium	3350		2790	J	17		P
Selenium	10.1		50.0	U	100.0		P
Silver	3.01	J	4.28	J	42		P
Sodium	34400		29800		13		P
Thallium	20.0	U	100	U			P
Vanadium	36.5		37.8	J	4		P
Zinc	142		136		4		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

EFF-WASTE WATERL

Lab Name: Chemtech Consulting Group **Contract:** NEWY17

Lab Code: CHEM **Lb No.:** lb133852 **Lab Sample ID :** P5192-02L **SDG No.:** P5051

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	-0.0075970	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
Magnesium	279.079	0.0000000	0.0000000	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	-0.0001440	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

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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	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	0.0000000	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
Magnesium	279.079	0.0000000	0.0000000	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

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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
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
Calcium	373.690	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
Magnesium	279.079	0.0000000	0.0000000	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	0.0007460	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

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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
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
Calcium	373.690	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
Magnesium	279.079	0.0000000	0.0000000	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	0.0003330	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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Case No.:** P5051 **SAS No.:** P5051

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
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Calcium	373.690	0.0000000	0.0000000	0.0000000	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
Magnesium	279.079	0.0000000	0.0000000	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

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SAMPLE PREPARATION SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Method:**

Case No.: P5051 **SAS No.:** P5051

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165365**						
P5051-07	14B-(1-4)-COMP	SAM	WATER	12/04/2024	50.0	25.0	
P5068-07DUP	14B-(1-4)-COMPDUP	DUP	WATER	12/04/2024	50.0	25.0	
P5068-07MS	14B-(1-4)-COMPMS	MS	WATER	12/04/2024	50.0	25.0	
P5068-07MSD	14B-(1-4)-COMPMSD	MSD	WATER	12/04/2024	50.0	25.0	
PB165365BL	PB165365BL	MB	WATER	12/04/2024	50.0	25.0	
PB165365BS	PB165365BS	LCS	WATER	12/04/2024	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: New York City DEP of Environmental Prot **SDG No.:** P5051

Contract: NEWY17 **Lab Code:** CHEM **Method:**

Case No.: P5051 **SAS No.:** P5051

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165519**						
P5051-07	14B-(1-4)-COMP	SAM	WATER	12/10/2024	30.0	30.0	
P5192-02DUP	EFF-WASTE WATERDUP	DUP	WATER	12/10/2024	30.0	30.0	
P5192-02MS	EFF-WASTE WATERMS	MS	WATER	12/10/2024	30.0	30.0	
P5192-02MSD	EFF-WASTE WATERMSD	MSD	WATER	12/10/2024	30.0	30.0	
PB165519BL	PB165519BL	MB	WATER	12/10/2024	30.0	30.0	
PB165519BS	PB165519BS	LCS	WATER	12/10/2024	30.0	30.0	

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metals
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ANALYSIS RUN LOG

Client: New York City DEP of Environmental Prot **Contract:** NEWY17

Lab code: CHEM **Case no.:** P5051 **Sas no.:** P5051 **Sdg no.:** P5051

Instrument id number: **Method:** **Run number:** LB133769

Start date: 12/05/2024 **End date:** 12/05/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1353	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1541	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1642	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1741	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165365BL	PB165365BL	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165365BS	PB165365BS	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1945	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1950	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2023	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2027	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: New York City DEP of Environmental Prot **Contract:** NEWY17

Lab code: CHEM **Case no.:** P5051 **Sas no.:** P5051 **Sdg no.:** P5051

Instrument id number: **Method:** **Run number:** LB133790

Start date: 12/06/2024 **End date:** 12/06/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1148	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1152	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1157	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1201	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1205	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1210	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1214	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1224	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1309	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1313	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5051-07	14B-(1-4)-COMP	1	1425	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07DUP	14B-(1-4)-COMPDUP	1	1434	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1442	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1446	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07L	14B-(1-4)-COMPL	5	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07MS	14B-(1-4)-COMPMS	1	1455	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07MSD	14B-(1-4)-COMPMSD	1	1459	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07A	14B-(1-4)-COMPA	1	1503	Sb
CCV04	CCV04	1	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5068-07DUP	14B-(1-4)-COMPDUP	5	1657	Mn
P5068-07MS	14B-(1-4)-COMPMS	5	1705	Mn
P5068-07MSD	14B-(1-4)-COMPMSD	5	1709	Mn
CCV06	CCV06	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1821	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1827	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: New York City DEP of Environmental Prot **Contract:** NEWY17

Lab code: CHEM **Case no.:** P5051 **Sas no.:** P5051 **Sdg no.:** P5051

Instrument id number: **Method:** **Run number:** LB133852

Start date: 12/10/2024 **End date:** 12/10/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0937	HG
S0.05	S0.05	1	0942	HG
S0.2	S0.2	1	0944	HG
S2.5	S2.5	1	0947	HG
S5	S5	1	0949	HG
S7.5	S7.5	1	0951	HG
S10	S10	1	0959	HG
ICV14	ICV14	1	1009	HG
ICB14	ICB14	1	1017	HG
CCV10	CCV10	1	1029	HG
CCB10	CCB10	1	1034	HG
CRA	CRA	1	1039	HG
PB165519BL	PB165519BL	1	1053	HG
PB165519BS	PB165519BS	1	1102	HG
P5051-07	14B-(1-4)-COMP	1	1116	HG
CCV11	CCV11	1	1126	HG
CCB11	CCB11	1	1131	HG
P5192-02DUP	EFF-WASTE WATERDUP	1	1133	HG
P5192-02MS	EFF-WASTE WATERMS	1	1135	HG
P5192-02MSD	EFF-WASTE WATERMSD	1	1137	HG
P5192-02L	EFF-WASTE WATERL	5	1140	HG
CCV12	CCV12	1	1144	HG
CCB12	CCB12	1	1149	HG

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LAB CHRONICLE

OrderID:	P5051	**OrderDate:**	12/2/2024 2:00:00 PM
Client:	New York City DEP of Environmental Protection/BWS	**Project:**	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5051-01	**14B-1**	**WATER**			**12/02/24 07:33**			**12/02/24**
			Field pH	SM4500-H B			12/02/24 07:38	
			Field Temperature	SM2550-B			12/02/24 07:38	
			Non-Polar Material	1664A			12/07/24 10:10	
			TSS	SM2540 D			12/03/24 09:40	
P5051-02	**14B-2**	**WATER**			**12/02/24 08:33**			**12/02/24**
			Field pH	SM4500-H B			12/02/24 08:38	
			Field Temperature	SM2550-B			12/02/24 08:38	
			Non-Polar Material	1664A			12/07/24 10:10	
			TSS	SM2540 D			12/03/24 09:40	
P5051-03	**14B-3**	**WATER**			**12/02/24 09:33**			**12/02/24**
			Field pH	SM4500-H B			12/02/24 09:39	
			Field Temperature	SM2550-B			12/02/24 09:39	
			Non-Polar Material	1664A			12/07/24 10:10	
			TSS	SM2540 D			12/03/24 09:40	

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LAB CHRONICLE

P5051-04	**14B-4**	**WATER**			**12/02/24 10:33**		**12/02/24**
			Field pH	SM4500-H B		12/02/24 10:38	
			Field Temperature	SM2550-B		12/02/24 10:38	
			Non-Polar Material	1664A		12/07/24 10:10	
			TSS	SM2540 D		12/03/24 09:40	
P5051-07	**14B-(1-4)-COMP**	**WATER**			**12/02/24 12:00**		**12/02/24**
			Cyanide-Amenable	SM4500-CN B,G Cyanide-Amenable		12/05/24 00:00	
			Cyanide	SM4500-CN C,E	12/05/24	12/05/24 13:47	
			Hexavalent Chromium	SM3500-Cr B		12/02/24 16:54	

SAMPLE DATA

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 07:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-1	SDG No.:	P5051
Lab Sample ID:	P5051-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.61		1	0	0	pH		12/02/24 07:38	SM4500-H B
Field Temperature	11.4		1	0	0	o C		12/02/24 07:38	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	4110		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

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

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 08:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-2	SDG No.:	P5051
Lab Sample ID:	P5051-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.73		1	0	0	pH		12/02/24 08:38	SM4500-H B
Field Temperature	10.4		1	0	0	o C		12/02/24 08:38	SM 2550 B-10
Non-Polar Material	0.40	U	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	3650		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

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

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 09:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-3	SDG No.:	P5051
Lab Sample ID:	P5051-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.75		1	0	0	pH		12/02/24 09:39	SM4500-H B
Field Temperature	11.1		1	0	0	o C		12/02/24 09:39	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	3710		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

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

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Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 10:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-4	SDG No.:	P5051
Lab Sample ID:	P5051-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.71		1	0	0	pH		12/02/24 10:38	SM4500-H B
Field Temperature	12.0		1	0	0	o C		12/02/24 10:38	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	4840		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

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

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Fax : 908 789 8922

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 00:00
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-(1-4)-COMP	SDG No.:	P5051
Lab Sample ID:	P5051-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0041	J	1	0.00093	0.0050	mg/L	12/05/24 09:00	12/05/24 13:47	SM 4500-CN C-16 plus E-16
Cyanide-Amenable	0.0010	U	1	0.0010	0.0050	mg/L		12/05/24 00:00	SM 4500-CN B-16 plus G-16
Dissolved Hexavalent Chromium	0.0020	U	1	0.0020	0.010	mg/L		12/02/24 16:54	SM 3500-Cr B-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

QC RESULT SUMMARY

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

Initial and Continuing Calibration Verification

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**RunNo.:**	LB133695

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.499	0.5	100	95-105	12/02/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	12/02/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	12/02/2024

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Initial and Continuing Calibration Verification

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**RunNo.:**	LB133772

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.097	0.099	98	85-115	12/05/2024
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	12/05/2024
Sample ID:	**CCV2**						
Cyanide		mg/L	0.25	0.25	100	90-110	12/05/2024
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	12/05/2024

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Initial and Continuing Calibration Verification

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**RunNo.:**	LB134007

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Field pH		pH	7.01	7	100	90-110	12/02/2024
Sample ID:	**CCV1**						
Field pH		pH	7.01	7	100	90-110	12/02/2024
Sample ID:	**CCV2**						
Field pH		pH	7	7	100	90-110	12/02/2024

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Initial and Continuing Calibration Blank Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **RunNo.:** LB133695

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	12/02/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	12/02/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	12/02/2024

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Initial and Continuing Calibration Blank Summary

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**RunNo.:**	LB133772

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024
Sample ID:	CCB3							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024

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Preparation Blank Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133695BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.002	0.01	12/02/2024
Sample ID: LB133715BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	12/03/2024
Sample ID: LB133806BL							
Non-Polar Material	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/07/2024
Sample ID: PB165397BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P4997-07

Client ID: 14B-(1-4)-COMPMS **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
Cyanide	mg/L	75-125	0.040		0.0045	J	0.04	1	89		12/05/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P4997-07

Client ID: 14B-(1-4)-COMPMSD **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
Cyanide	mg/L	75-125	0.040		0.0045	J	0.04	1	89		12/05/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-04

Client ID: 14B-4MS **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
Non-Polar Material	mg/L	78-114	20.7		0.70	J	20.0	1	100		12/07/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-04

Client ID: 14B-4MSD **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
Non-Polar Material	mg/L	78-114	20.4		0.70	J	20.0	1	98		12/07/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-07

Client ID: 14B-(1-4)-COMPMS **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
Hexavalent Chromium	mg/L	90-111	0.98		0.0020	U	1.0	2	98		12/02/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-07

Client ID: 14B-(1-4)-COMPMSD **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
Hexavalent Chromium	mg/L	90-111	0.99		0.0020	U	1.0	2	99		12/02/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5068-04

Client ID: 14B-4MS **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
Non-Polar Material	mg/L	78-114	20.4		0.40	J	20.0	1	100		12/07/2024

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Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5068-04

Client ID: 14B-4MSD **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
Non-Polar Material	mg/L	78-114	22.5		0.40	J	20.0	1	111		12/07/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P4997-07
Client ID: 14B-(1-4)-COMPDUP
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
Cyanide	mg/L	+/-20	0.0045	J	0.0042	J	1	7		12/05/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P4997-07
Client ID: 14B-(1-4)-COMPMSD
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
Cyanide	mg/L	+/-20	0.040		0.040		1	0		12/05/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P5051-04
Client ID: 14B-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	4840		4850		1	0.21		12/03/2024
Field pH	pH	+/-20	6.71		6.73		1	0.3		12/02/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P5051-04
Client ID: 14B-4MSD
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
Non-Polar Material	mg/L	+/-18	20.7		20.4		1	1.46		12/07/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P5051-07
Client ID: 14B-(1-4)-COMPDUP
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
Hexavalent Chromium	mg/L	+/-20	0.0020	U	0.0020	U	1	0		12/02/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P5051-07
Client ID: 14B-(1-4)-COMPMSD
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
Hexavalent Chromium	mg/L	+/-20	0.98		0.99		2	0.61		12/02/2024

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Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS
SDG No.: P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024
Sample ID: P5068-04
Client ID: 14B-4MSD
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
Non-Polar Material	mg/L	+/-18	20.4		22.5		1	9.79		12/07/2024

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Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**Run No.:**	LB133695

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133695BS								
Hexavalent Chromium	mg/L	0.5	0.51		102	1	90-111	12/02/2024

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Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**Run No.:**	LB133715

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB133715BS**								
TSS	mg/L	550	536		98	1	90-110	12/03/2024

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Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**Run No.:**	LB133806

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133806BS								
Non-Polar Material	**mg/L**	**20.0**	**16.6**		**83**	**1**	**78-114**	**12/07/2024**

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Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	**SDG No.:**	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	**Run No.:**	LB133772

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB165397BS**								
Cyanide	mg/L	0.1	0.095		95	1	85-115	12/05/2024

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. P5051
QUOTE NO.
COC Number 2042252

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8.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: NYC Dep of Environmental
ADDRESS: 3701 Jerome Ave
CITY Bronx STATE: NY ZIP:
ATTENTION: Nicholas Prokopowicz
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Industrial wastewater Discharge Permit 2024
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1 VOCs 2 Metals 3 Cyanide 4 O&G 5 TSS, Met chrom/PM 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A 1	B 2	D 3	C 4	E 5	6	7	8	9	COMMENTS
1.	14B #1	AQ		X	120224	0733	6	X	X	X	X	X					6.61 / 11.44 C
2.	14B #2			X		0833	6	X	X	X	X	X					6.73 / 10.36 C
3.	14B #3			X		0933	6	X	X	X	X	X					6.75 / 11.09 C
4.	14B #4			X		1033	6	X	X	X	X	X					6.7 / 11.96 C
5.	14B #4 MS/MSD			X		1038	2				X						
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1100 12-02-24	1.
2.		2.
3.	1330 12-02-24	3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.4 °C
Comments:

Page 1 of 1

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

Shipment Complete ☒ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

Laboratory Composite Sample log

Chemtech Project number: P5051 Date: 12-02-24

Client Name: New York Dep of Environmental Client Project Name : Industrial W/w Discharge

Instructions: Composite metals, Cyanide, Hex chrom Samples 4:1

Sample Custodian: JM

Client Sample ID	Weigh /Volume used	New ID	Sample Description	Sample Composite time	Comments
14B #1	500mL - 125mL 1000mL - 250mL	14B(1-4)Comp	Dark Brown water	14.26	125 x 4 = 500mL 250 x 4 = 1000mL > Volume used
14B #2					
14B #3					
14B #4					

QA Control # A3041240

8 8.1

CHEMTECH

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

FIELD SAMPLING LOG

Client Name: New York city Dep of Environmental
Client Address: 3701 Jerome Ave, Bronx, NY
Client Rep on Site: Nicholas Prokopowicz
Sampling Date: 12-02-24
Arrival Time: 0659 Departure Time: 1100

Project Name: Industrial wastewater Discharge permit 2024
Project Location: Bronx NY
Cooler Custody Seal: N/A
Temperature Correction Factor (°C): N/A

FIELD SAMPLING INFORMATION

Sampling Location	Date/Time of sampling	Field Measurements			
		Date/Time of Analysis	pH	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
CCV (W3071)	12-02-24 0728	12-02-24 0731	7.01	12.10	N/A
14B #1	0733	0738	6.61	11.44	
14B #2	0833	0838	6.73	10.36	
14B #3	0933	0939	6.75	11.09	
14B #4	1033	1038	6.71	11.96	
DUP	1042	1045	6.73	11.94	
CCV (W3071)	1048	1052	7.00	12.06	

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date: 12-02-24 **Supervisor Review/Date:** 12-2-24

QA Control# A3041241

CHEMTECH

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

FIELD SAMPLING LOG

Client Name: New York City Dep of Environmental
Client Address: 3701 Jerome Ave, Bronx, NY
Client Rep on Site: Nicholas Prokopowicz
Sampling Date: 12-02-24
Arrival Time: 0659 Departure Time: _____

Project Name: Industrial Wastewater Discharge permit 2024
Project Location: Bronx NY
Cooler Custody Seal: N/A
Temperature Correction Factor (°C): N/A

FIELD EQUIPMENT CALIBRATION (± 1%) (99% -101%)

pH Calibration (± 1%) (99% -101%) (SM4500-H B/9040C)				
Calibration (± 1%) (99% -101%)				ICV (± 0.1 pH unit)
	7.00 Buffer	4.00 Buffer	10.00 Buffer	7.00 Buffer
	W 3071	W 3107	W 3094	W 3093
Time	0710	0713	0718	0723
Temp °C	12.18	11.40	10.41	10.60
pH	7.00	3.99	9.98	7.01

FIELD EQUIPMENT CALIBRATION (± 1%) (99% -101%)

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)		
Calibration (± 1%) (99% -101%)		ICV (± 1%) (99% -101%)
	WP	WP
Time		
Temp °C		
Reading (mS/cm)		

Sampler Signature/Date: JM 12-02-24

Supervisor Review/Date: JM 12-2-24

QA Control# A3041241

Laboratory Certification

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5051 NEWY17
Client Name : New York City DEP of Env
Client Contact : Nicholas Prokopowicz
Invoice Name : New York City DEP of Env
Invoice Contact : Nicholas Prokopowicz

Order Date : 12/2/2024 2:00:00 PM
Project Name : Industrial Wastewater Disch
Receive DateTime : 12/2/2024 1:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5051-01	14B-1	Water	12/02/2024	07:35 07:33	VOCMS Group1		624.1		10 Bus. Days
P5051-02	14B-2	Water	12/02/2024	08:33	VOCMS Group1		624.1		10 Bus. Days
P5051-03	14B-3	Water	12/02/2024	09:33	VOCMS Group1		624.1		10 Bus. Days
P5051-04	14B-4	Water	12/02/2024	10:33	VOCMS Group1		624.1		10 Bus. Days

Relinquished By : JM
Date / Time : 12-02-24 1435

Received By : Sam
Date / Time : 12/02/24 14:35 Left 5

Storage Area : VOA Refridgerator Room