

LAB CHRONICLE

OrderID:	P5018	OrderDate:	11/26/2024 12:20:00 PM
Client:	New York City DEP of Environmental Protection/BWS	Project:	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	Location:	L51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5018-01	14B-1	WATER			11/26/24 07:00			11/26/24
			Field pH	SM4500-H B			11/26/24 07:03	
			Field Temperature	SM2550-B			11/26/24 07:03	
			Non-Polar Material	1664A			12/02/24 09:40	
			TSS	SM2540 D			11/27/24 08:30	
P5018-02	14B-2	WATER			11/26/24 07:59			11/26/24
			Field pH	SM4500-H B			11/26/24 08:02	
			Field Temperature	SM2550-B			11/26/24 08:02	
			Non-Polar Material	1664A			12/02/24 09:40	
			TSS	SM2540 D			11/27/24 08:30	
P5018-03	14B-3	WATER			11/26/24 09:00			11/26/24
			Field pH	SM4500-H B			11/26/24 09:03	
			Field Temperature	SM2550-B			11/26/24 09:03	
			Non-Polar Material	1664A			12/02/24 09:40	
			TSS	SM2540 D			11/27/24 08:30	

LAB CHRONICLE

P5018-04	14B-4	WATER			11/26/24 10:01			11/26/24	
			Field pH	SM4500-H B			11/26/24 10:03		
			Field Temperature	SM2550-B			11/26/24 10:03		
			Non-Polar Material	1664A			12/02/24 09:40		
			TSS	SM2540 D			11/27/24 08:30		
P5018-07	14B-(1-4)-COMP	WATER			11/26/24 14:20	12/05/24			11/26/24
			Cyanide	SM4500-CN C,E				12/05/24 13:25	
			Cyanide-Amenable	SM4500-CN B,G				12/05/24 00:00	
				Cyanide-Amenable					
			Hexavalent Chromium	SM3500-Cr B				11/26/24 16:59	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24 07:00
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-1	SDG No.:	P5018
Lab Sample ID:	P5018-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.76		1	0	0	pH		11/26/24 07:03	SM4500-H B
Field Temperature	13.3		1	0	0	o C		11/26/24 07:03	SM 2550 B-10
Non-Polar Material	0.60	J	1	0.40	5.00	mg/L		12/02/24 09:40	1664A
TSS	3540		1	1.00	4.00	mg/L		11/27/24 08:30	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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24 07:59
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-2	SDG No.:	P5018
Lab Sample ID:	P5018-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.80		1	0	0	pH		11/26/24 08:02	SM4500-H B
Field Temperature	13.1		1	0	0	o C		11/26/24 08:02	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/02/24 09:40	1664A
TSS	3480		1	1.00	4.00	mg/L		11/27/24 08:30	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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24 09:00
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-3	SDG No.:	P5018
Lab Sample ID:	P5018-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.89		1	0	0	pH		11/26/24 09:03	SM4500-H B
Field Temperature	13.3		1	0	0	o C		11/26/24 09:03	SM 2550 B-10
Non-Polar Material	0.50	J	1	0.40	5.00	mg/L		12/02/24 09:40	1664A
TSS	3820		1	1.00	4.00	mg/L		11/27/24 08:30	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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24 10:01
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-4	SDG No.:	P5018
Lab Sample ID:	P5018-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.78		1	0	0	pH		11/26/24 10:03	SM4500-H B
Field Temperature	13.4		1	0	0	o C		11/26/24 10:03	SM 2550 B-10
Non-Polar Material	0.60	J	1	0.40	5.00	mg/L		12/02/24 09:40	1664A
TSS	5270		1	1.00	4.00	mg/L		11/27/24 08:30	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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24 14:20
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-(1-4)-COMP	SDG No.:	P5018
Lab Sample ID:	P5018-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0042	J	1	0.00093	0.0050	mg/L	12/05/24 09:00	12/05/24 13:25	SM 4500-CN C-16 plus E-16
Cyanide-Amenable	0.0050	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		11/26/24 16:59	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

Initial and Continuing Calibration Verification

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5018

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133639

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	11/26/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	11/26/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/26/2024

Initial and Continuing Calibration Verification

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5018

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133772

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

Initial and Continuing Calibration Verification

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5018

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133823

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Field pH		pH	7.02	7	100	90-110	11/26/2024
Sample ID:	CCV1						
Field pH		pH	6.99	7.00	100	90-110	11/26/2024
Sample ID:	CCV2						
Field pH		pH	7.01	7.00	100	90-110	11/26/2024

Initial and Continuing Calibration Blank Summary

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5018

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133639

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	11/26/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	11/26/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	11/26/2024

Initial and Continuing Calibration Blank Summary

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5018

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

Preparation Blank Summary

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5018

Project: Industrial Wastewater Discharge Permit - Fall 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Ib133639BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.002	0.01	11/26/2024
Sample ID: LB133658BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	11/27/2024
Sample ID: LB133678BL							
Non-Polar Material	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/02/2024
Sample ID: PB165397BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024

Matrix Spike Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P4997-04
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	20.9		0.80	J	20.0	1	101		12/02/2024

Matrix Spike Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P4997-04
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	21.0		0.80	J	20.0	1	101		12/02/2024

Matrix Spike Summary

Client:

New York City DEP of Environmental Protection/BWS

SDG No.:

P5018

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

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5018
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

Matrix Spike Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5018-04
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	20.9		0.60	J	20.0	1	102		12/02/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5018
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5018-04
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	20.8		0.60	J	20.0	1	101		12/02/2024

Matrix Spike Summary

Client:

New York City DEP of Environmental Protection/BWS

SDG No.:

P5018

Project:

Industrial Wastewater Discharge Permit - Fall 2024

Sample ID:

P5018-07

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		11/26/2024

Matrix Spike Summary

Client:

New York City DEP of Environmental Protection/BWS

SDG No.:

P5018

Project:

Industrial Wastewater Discharge Permit - Fall 2024

Sample ID:

P5018-07

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	0.98		0.0020	U	1.0	2	98		11/26/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P4997-04
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	20.9		21.0		1	0.48		12/02/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
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

Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5018
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

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5018-04
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	5270		5070		1	3.87		11/27/2024
Field pH	pH	+/-20	6.78		6.77		1	0.15		11/26/2024
Field Temperature	o C	+/-20	13.4		13.4		1	0		11/26/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5018-04
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	20.9		20.8		1	0.48		12/02/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5018-07
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		11/26/2024

Duplicate Sample Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5018
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5018-07
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		0.98		2	0.41		11/26/2024

Laboratory Control Sample Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5018
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Run No.:** LB133639

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	lb133639BS							
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	11/26/2024

Laboratory Control Sample Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5018
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Run No.:** LB133658

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133658BS							
TSS	mg/L	550	536		98	1	90-110	11/27/2024

Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Run No.:	LB133678

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133678BS							
Non-Polar Material	mg/L	20.0	17.0		85	1	78-114	12/02/2024

Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5018
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