

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

LAB CHRONICLE

OrderID:	Q3704	OrderDate:	11/21/2025 11:17:08 AM
Client:	ATG-GREENVILLE AEC	Project:	AEC-2025-0013-CSC 3093 Carol Stream
Contact:	Staci Bruce	Location:	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3704-01	SW-2	Water			11/18/25 12:00			11/21/25
			COD	SM5220 D			11/25/25 13:50	
			Field pH	SM4500-H B			11/18/25 12:00	
			TSS	SM2540 D			11/21/25 15:30	



SAMPLE DATA

Report of Analysis

Client: ATG-GREENVILLE AEC
Project: AEC-2025-0013-CSC 3093 Carol Stream
Client Sample ID: SW-2
Lab Sample ID: Q3704-01

Date Collected: 11/18/25 12:00
Date Received: 11/21/25
SDG No.: Q3704
Matrix: Water
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	22.9		1	1.50	10.0	mg/L		11/25/25 13:50	SM 5220 D-11
Field pH	7.86		1	0	0	pH		11/18/25 12:00	SM4500-H B
TSS	3.70	J	1	1.00	4.00	mg/L		11/21/25 15:30	SM 2540 D-20

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: ATG-GREENVILLE AEC

SDG No.: Q3704

Project: AEC-2025-0013-CSC 3093 Carol Stream

RunNo.: LB138041

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: COD	ICV	mg/L	50.173	50	100	95-105	09/08/2025
Sample ID: COD	CCV1	mg/L	52.196	50	104	95-105	11/25/2025
Sample ID: COD	CCV2	mg/L	51.184	50	102	95-105	11/25/2025
Sample ID: COD	CCV3	mg/L	51.184	50	102	95-105	11/25/2025

Initial and Continuing Calibration Blank Summary

Client: ATG-GREENVILLE AEC

SDG No.: Q3704

Project: AEC-2025-0013-CSC 3093 Carol Stream

RunNo.: LB138041

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	09/08/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	11/25/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	11/25/2025
Sample ID: CCB3 COD	mg/L	< 5.0000	5.0000	U	1.50	10	11/25/2025

Preparation Blank Summary

Client: ATG-GREENVILLE AEC

SDG No.: Q3704

Project: AEC-2025-0013-CSC 3093 Carol Stream

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB138018BL							
TSS	mg/L	1	2.0000	J	1	4	11/21/2025
Sample ID: LB138041BL							
COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	11/25/2025

Matrix Spike Summary

Client:	ATG-GREENVILLE AEC	SDG No.:	Q3704
Project:	AEC-2025-0013-CSC 3093 Carol Stream	Sample ID:	Q3676-01
Client ID:	OUTFALL-DSN-001MS	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
COD	mg/L	75-125	73.4		26.9		50.0	1	93		11/25/2025

Matrix Spike Summary

Client:	ATG-GREENVILLE AEC	SDG No.:	Q3704
Project:	AEC-2025-0013-CSC 3093 Carol Stream	Sample ID:	Q3676-01
Client ID:	OUTFALL-DSN-001MSD	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
COD	mg/L	75-125	75.5		26.9		50.0	1	97		11/25/2025

Duplicate Sample Summary

Client: ATG-GREENVILLE AEC	SDG No.: Q3704
Project: AEC-2025-0013-CSC 3093 Carol Stream	Sample ID: Q3676-01
Client ID: OUTFALL-DSN-001DUP	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
COD	mg/L	+/-20	26.9		25.9		1	3.79		11/25/2025

Duplicate Sample Summary

Client: ATG-GREENVILLE AEC	SDG No.: Q3704
Project: AEC-2025-0013-CSC 3093 Carol Stream	Sample ID: Q3676-01
Client ID: OUTFALL-DSN-001MSD	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
COD	mg/L	+/-20	73.4		75.5		1	2.82		11/25/2025

Duplicate Sample Summary

Client:	ATG-GREENVILLE AEC	SDG No.:	Q3704
Project:	AEC-2025-0013-CSC 3093 Carol Stream	Sample ID:	Q3676-04
Client ID:	OUTFALL-DSN-002DUP	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	2890		2890		1	0.05		11/21/2025

Laboratory Control Sample Summary

Client:	ATG-GREENVILLE AEC	SDG No.:	Q3704
Project:	AEC-2025-0013-CSC 3093 Carol Stream	Run No.:	LB138018

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB138018BS							
TSS	mg/L	550	591		107	1	90-110	11/21/2025

Laboratory Control Sample Summary

Client:	ATG-GREENVILLE AEC	SDG No.:	Q3704
Project:	AEC-2025-0013-CSC 3093 Carol Stream	Run No.:	LB138041

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB138041BS							
COD	mg/L	50	48.2		96	1	90-110	11/25/2025



RAW DATA

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 11/20/2025

Run Number: LB138018

BalanceID: WC SC-5

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 11/20/2025 13:30 **TEMP1 OUT:** 103 °C 11/20/2025 14:30
TEMP2 IN: 104 °C 11/20/2025 15:30 **TEMP2 OUT:** 104 °C 11/20/2025 16:30
TEMP3 IN: 104 °C 11/21/2025 15:30 **TEMP3 OUT:** 103 °C 11/21/2025 17:00
TEMP4 IN: 104 °C 11/21/2025 17:30 **TEMP4 OUT:** 103 °C 11/21/2025 18:37

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB138018BL	LB138018BL	1.4863	1.4863	100	1.4864	1.4864	1.4864	0.0001	1
2	LB138018BS	LB138018BS	1.3523	1.3523	100	1.4114	1.4114	1.4114	0.0591	591
3	Q3675-02	COMP	1.4834	1.4835	200	1.5110	1.5110	1.5110	0.0275	137.5
4	Q3676-01	OUTFALL-DSN-001	1.4880	1.4881	1000	1.5979	1.5980	1.5980	0.1099	109.9
5	Q3676-04	OUTFALL-DSN-002	1.4946	1.4946	300	2.3626	2.3626	2.3626	0.8680	2893.3
6	Q3676-04DUP	OUTFALL-DSN-002DUP	1.4835	1.4835	300	2.3519	2.3519	2.3519	0.8684	2894.7
7	Q3690-01	RW8-SP100-20251118	1.4791	1.4791	1800	1.4799	1.4799	1.4799	0.0008	0.4
8	Q3690-02	RW8-SP303-20251118	1.4987	1.4987	1200	1.4989	1.4989	1.4989	0.0002	0.2
9	Q3700-04	EFF-WW	1.4737	1.4737	1000	1.5528	1.5528	1.5528	0.0791	79.1
10	Q3701-01	EFFLUENT	1.4977	1.4977	40	1.5391	1.5391	1.5391	0.0414	1035
11	Q3701-04	AERATION	1.5013	1.5013	30	1.5472	1.5472	1.5472	0.0459	1530
12	Q3703-01	SW-2	1.4802	1.4803	650	1.5178	1.5178	1.5178	0.0375	57.7
13	Q3704-01	SW-2	1.4103	1.4104	950	1.4139	1.4139	1.4139	0.0035	3.7

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 11/20/2025

Run Number: LB138018

BalanceID: WC SC-5

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 11/20/2025 13:30 **TEMP1 OUT:** 103 °C 11/20/2025 14:30
TEMP2 IN: 104 °C 11/20/2025 15:30 **TEMP2 OUT:** 104 °C 11/20/2025 16:30
TEMP3 IN: 104 °C 11/21/2025 15:30 **TEMP3 OUT:** 103 °C 11/21/2025 17:00
TEMP4 IN: 104 °C 11/21/2025 17:30 **TEMP4 OUT:** 103 °C 11/21/2025 18:37

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L

A = Sample Volume (ml)
 B = Final Empty Dish Weight (g)
 C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
 D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} \times 1000 \times 1000$

WORKLIST(Hardcopy Internal Chain)

11/21/25 13:10

WorkList Name : tss q3703 WorkList ID : 193293 Department : Wet-Chemistry Date : 11-21-2025 12:53:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3675-02	COMP	Water	TSS	Cool 4 deg C	ARAM01	E11	11/19/2025	SM2540 D
Q3676-01	OUTFALL-DSN-001	Water	TSS	Cool 4 deg C	TRIS02	E11	11/18/2025	SM2540 D
Q3676-04	OUTFALL-DSN-002	Water	TSS	Cool 4 deg C	TRIS02	E11	11/18/2025	SM2540 D
Q3690-01	RW8-SP100-20251118	Water	TSS	Cool 4 deg C	TETR06	A11	11/18/2025	SM2540 D
Q3690-02	RW8-SP303-20251118	Water	TSS	Cool 4 deg C	TETR06	A11	11/18/2025	SM2540 D
Q3700-04	EFF-WW	Water	TSS	Cool 4 deg C	ARDM01	E11	11/20/2025	SM2540 D
Q3701-01	EFFLUENT	Water	TSS	Cool 4 deg C	HOLL01	D41	11/20/2025	SM2540 D
Q3701-04	AERATION	Water	TSS	Cool 4 deg C	HOLL01	D41	11/20/2025	SM2540 D
Q3703-01	SW-2	Water	TSS	Cool 4 deg C	ATGG01	D41	11/18/2025	SM2540 D
Q3704-01	SW-2	Water	TSS	Cool 4 deg C	ATGG01	D31	11/18/2025	SM2540 D
Q3705-01	MH 11242025	Water	TSS	Cool 4 deg C	EURO03	D41	11/21/2025	SM2540 D

11/21/25 13:10

11/22/2025

Date/Time 11/21/25 13:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/21/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB138041

Reagent/Standard	Lot/Log #
COD calibration std. 150 ppm	WP114659
COD calibration std. 100 ppm	WP114658
COD calibration std. 50 ppm	WP114656
COD calibration std. 10 ppm	WP114655
COD calibration std. 0 ppm	WP114654
COD ICV-LCS std, 50ppm	WP114661
COD calibration std. 75 ppm	WP114657
COD Digestion Vials Low Level 0-150Mg/L	W3250
COD CCV std, 50ppm	WP115826
COD ICV-LCS std, 50ppm	WP115827
RL CHECK	WP115828

Temp In (C): 150	Date In: 11/25/2025	Time In: 09:40
Temp Out (C): 151	Date Out: 11/25/2025	Time Out: 11:40

Intercept: 0.3943

Slope: 0.9887

Regression: 0.9996

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.399		09/08/2025	13:30
2	CAL2	10	1	Water	9.000	8.704	-13	09/08/2025	13:30
3	CAL3	50	1	Water	51.000	51.184	2.4	09/08/2025	13:31
4	CAL4	75	1	Water	77.000	77.481	3.3	09/08/2025	13:31
5	CAL5	100	1	Water	98.000	98.721	-1.3	09/08/2025	13:32
6	CAL6	150	1	Water	148.000	149.293	-0.5	09/08/2025	13:32

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB138041

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	50.173	09/08/2025	13:33
2	ICB		NA	NA	1	Water	1.000	0.613	09/08/2025	13:33
3	CCV1	50	NA	NA	1	Water	52.000	52.196	11/25/2025	13:45
4	CCB1		NA	NA	1	Water	1.000	0.613	11/25/2025	13:45
5	RL Check	10	NA	NA	1	Water	9.000	8.704	11/25/2025	13:46
6	LB138041BL		NA	NA	1	Water	1.000	0.613	11/25/2025	13:46
7	LB138041BS	50	NA	NA	1	Water	48.000	48.150	11/25/2025	13:47
8	Q3676-01		NA	NA	1	Water	27.000	26.910	11/25/2025	13:47
9	Q3676-01DUP		NA	NA	1	Water	26.000	25.898	11/25/2025	13:48
10	Q3676-01MS	50	NA	NA	1	Water	73.000	73.436	11/25/2025	13:48
11	Q3676-01MSD	50	NA	NA	1	Water	75.000	75.458	11/25/2025	13:49
12	Q3676-04		NA	NA	200	Water	119.000	119.961	11/25/2025	13:49
13	Q3703-01		NA	NA	10	Water	32.000	31.967	11/25/2025	13:50
14	Q3704-01		NA	NA	1	Water	23.000	22.864	11/25/2025	13:50
15	Q3716-01		NA	NA	1	Water	86.000	86.584	11/25/2025	13:51
16	CCV2	50	NA	NA	1	Water	51.000	51.184	11/25/2025	13:51
17	CCB2		NA	NA	1	Water	0.000	-0.399	11/25/2025	13:52
18	Q3716-02		NA	NA	1	Water	3.000	2.635	11/25/2025	13:52
19	Q3716-03		NA	NA	1	Water	52.000	52.196	11/25/2025	13:53
20	Q3716-04		NA	NA	10	Water	38.000	38.036	11/25/2025	13:54
21	CCV3	50	NA	NA	1	Water	51.000	51.184	11/25/2025	13:54
22	CCB3		NA	NA	1	Water	1.000	0.613	11/25/2025	13:55

WORKLIST(Hardcopy Internal Chain)

LB138041

WorkList Name : COD-112525 WorkList ID : 193336 Department : Wet-Chemistry Date : 11-25-2025 08:39:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3676-01	OUTFALL-DSN-001	Water	COD	Conc H2SO4 to pH < 2	TRIS02	E11	11/18/2025	SM5220 D
Q3676-04	OUTFALL-DSN-002	Water	COD	Conc H2SO4 to pH < 2	TRIS02	E11	11/18/2025	SM5220 D
Q3703-01	SW-2	Water	COD	Conc H2SO4 to pH < 2	ATGG01	D41	11/18/2025	SM5220 D
Q3704-01	SW-2	Water	COD	Conc H2SO4 to pH < 2	ATGG01	D31	11/18/2025	SM5220 D
Q3716-01	MW5	Water	COD	Conc H2SO4 to pH < 2	GENV01	E22	11/24/2025	SM5220 D
Q3716-02	MW3	Water	COD	Conc H2SO4 to pH < 2	GENV01	E22	11/24/2025	SM5220 D
Q3716-03	MW4	Water	COD	Conc H2SO4 to pH < 2	GENV01	E22	11/24/2025	SM5220 D
Q3716-04	MW7	Water	COD	Conc H2SO4 to pH < 2	GENV01	E22	11/24/2025	SM5220 D

Date/Time 11/25/25 09:00
 Raw Sample Received by: 12607
 Raw Sample Relinquished by: 12607

Date/Time 11/25/25 10:20
 Raw Sample Received by: 12607
 Raw Sample Relinquished by: 12607

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB138018

Review By	jignesh	Review On	11/25/2025 11:13:12 AM
Supervise By	Iwona	Supervise On	11/25/2025 11:37:09 AM
SubDirectory	LB138018	Test	TSS
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB138018BL	LB138018BL	MB	11/21/25 15:30		jignesh	OK
2	LB138018BS	LB138018BS	LCS	11/21/25 15:30	55 MG W3186 + 100 ML W3112	jignesh	OK
3	Q3675-02	COMP	SAM	11/21/25 15:30		jignesh	OK
4	Q3676-01	OUTFALL-DSN-001	SAM	11/21/25 15:30		jignesh	OK
5	Q3676-04	OUTFALL-DSN-002	SAM	11/21/25 15:30		jignesh	OK
6	Q3676-04DUP	OUTFALL-DSN-002D	DUP	11/21/25 15:30		jignesh	OK
7	Q3690-01	RW8-SP100-2025111	SAM	11/21/25 15:30		jignesh	OK
8	Q3690-02	RW8-SP303-2025111	SAM	11/21/25 15:30		jignesh	OK
9	Q3700-04	EFF-WW	SAM	11/21/25 15:30		jignesh	OK
10	Q3701-01	EFFLUENT	SAM	11/21/25 15:30		jignesh	OK
11	Q3701-04	AERATION	SAM	11/21/25 15:30		jignesh	OK
12	Q3703-01	SW-2	SAM	11/21/25 15:30		jignesh	OK
13	Q3704-01	SW-2	SAM	11/21/25 15:30		jignesh	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB138041

Review By	Iwona	Review On	11/25/2025 4:34:23 PM
Supervise By	jignesh	Supervise On	11/26/2025 9:33:43 AM
SubDirectory	LB138041	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3250,WP115826,WP115827,WP1		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/08/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	09/08/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	09/08/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	09/08/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	09/08/25 13:32		Iwona	OK
6	CAL6	CAL6	CAL	09/08/25 13:32		Iwona	OK
7	ICV	ICV	ICV	09/08/25 13:33		Iwona	OK
8	ICB	ICB	ICB	09/08/25 13:33		Iwona	OK
9	CCV1	CCV1	CCV	11/25/25 13:45		Iwona	OK
10	CCB1	CCB1	CCB	11/25/25 13:45		Iwona	OK
11	RL Check	RL Check	RL	11/25/25 13:46		Iwona	OK
12	LB138041BL	LB138041BL	MB	11/25/25 13:46		Iwona	OK
13	LB138041BS	LB138041BS	LCS	11/25/25 13:47		Iwona	OK
14	Q3676-01	OUTFALL-DSN-001	SAM	11/25/25 13:47		Iwona	OK
15	Q3676-01DUP	OUTFALL-DSN-001D	DUP	11/25/25 13:48		Iwona	OK
16	Q3676-01MS	OUTFALL-DSN-001M	MS	11/25/25 13:48	0.5mL of WP115824 + 9.5mL of sample	Iwona	OK
17	Q3676-01MSD	OUTFALL-DSN-001M	MSD	11/25/25 13:49	0.5mL of WP115824 + 9.5mL of sample	Iwona	OK
18	Q3676-04	OUTFALL-DSN-002	SAM	11/25/25 13:49		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB138041

Review By	Iwona	Review On	11/25/2025 4:34:23 PM
Supervise By	jignesh	Supervise On	11/26/2025 9:33:43 AM
SubDirectory	LB138041	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3250,WP115826,WP115827,WP1		

19	Q3703-01	SW-2	SAM	11/25/25 13:50		Iwona	OK
20	Q3704-01	SW-2	SAM	11/25/25 13:50		Iwona	OK
21	Q3716-01	MW5	SAM	11/25/25 13:51		Iwona	OK
22	CCV2	CCV2	CCV	11/25/25 13:51		Iwona	OK
23	CCB2	CCB2	CCB	11/25/25 13:52		Iwona	OK
24	Q3716-02	MW3	SAM	11/25/25 13:52		Iwona	OK
25	Q3716-03	MW4	SAM	11/25/25 13:53		Iwona	OK
26	Q3716-04	MW7	SAM	11/25/25 13:54		Iwona	OK
27	CCV3	CCV3	CCV	11/25/25 13:54		Iwona	OK
28	CCB3	CCB3	CCB	11/25/25 13:55		Iwona	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138046

Review By	rubina	Review On	11/26/2025 1:43:09 PM
Supervise By	Iwona	Supervise On	11/26/2025 1:43:31 PM
SubDirectory	LB138046	Test	Field pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q3704-01	SW-2	SAM	11/18/25		Ayul	OK
2	Q3703-01	SW-2	SAM	11/18/25 12:05		Ayul	OK

Prep Standard - Chemical Standard Summary

Order ID : Q3704

Test : COD,Field pH,TSS

Prepbatch ID :

Sequence ID/Qc Batch ID: LB138018, LB138041, LB138046,

Standard ID :

WP114652, WP114653, WP114654, WP114655, WP114656, WP114657, WP114658, WP114659, WP114661, WP115824, WP
115825, WP115826, WP115827, WP115828,

Chemical ID :

W3112, W3169, W3219, W3250,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP114652	09/08/2025	09/15/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh
FROM 0.08500gram of W3219 + 100.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2457	COD Stock std-SS, 1000ppm	WP114653	09/08/2025	09/15/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 09/11/2025
<u>FROM</u>	0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml							

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
139	COD calibration std. 0 ppm	WP114654	09/08/2025	09/15/2025	Iwona Zarych	None	None	Jignesh Parikh
								09/11/2025

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
138	COD calibration std. 10 ppm	WP114655	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh
								09/11/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP114652 = Final Quantity: 10.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
137	COD calibration std. 50 ppm	WP114656	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP114652 = Final Quantity: 10.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4161	COD calibration std. 75 ppm	WP114657	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
<u>FROM</u> 9.25000ml of W3112 + 0.75000ml of WP114652 = Final Quantity: 10.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
136	COD calibration std. 100 ppm	WP114658	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
FROM 9.00000ml of W3112 + 1.00000ml of WP114652 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
135	COD calibration std. 150 ppm	WP114659	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
<u>FROM</u> 8.50000ml of W3112 + 1.50000ml of WP114652 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP114661	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 09/11/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP114653 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP115824	11/25/2025	12/02/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 11/26/2025

FROM 0.08500gram of W3219 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2457	COD Stock std-SS, 1000ppm	WP115825	11/25/2025	12/02/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh
<u>FROM</u> 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2458	COD CCV std, 50ppm	WP115826	11/25/2025	12/02/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/26/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP115824 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP115827	11/25/2025	12/02/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/26/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP115825 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4162	RL CHECK	WP115828	11/25/2025	12/02/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/26/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP115824 = Final Quantity: 10.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / lwona	01/03/2025 / lwona	W3169

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	2025040493	06/30/2030	06/26/2025 / lwona	06/26/2025 / lwona	W3219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	5GH1097	08/31/2030	11/14/2025 / lwona	10/22/2025 / lwona	W3250



Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

Certificate Of Analysis



Date of Release: 4/8/2025

Name: **Potassium Hydrogen Phthalate**

ACS

Item No: **PX1476 All Sizes**

Lot / Batch No: **2025040493**

Country of Origin: **USA**

Item	Specifications	Analysis
Assay (Dried Basis)	99.95-100.05%	99.98%
Chlorine compounds (as Cl)	0.003% max.	<0.003%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.005% max.	<0.005%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.05m solution @ 25.0C	4.00-4.02	4.00
Sodium (Na)	0.005% max.	<0.005%
Sulfur compounds (as S)	0.002% max.	<0.002%

Joe Schoellkopf

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

W 3250

Dec. 10/22/25 12



2345A Charleston Regional
Charleston, South Carolina 29492
environmentalexpress.com
+1 843.881.6560

August 18, 2025

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable, quality results.

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

<u>Cat. No.</u>	<u>Lot No.</u>	<u>Product Description</u>	<u>Expiration Date</u>
B1010	5GH1097	COD Reagent Vials, 0 - 150 ppm	Aug-30



SHIPPING DOCUMENTS



3310 Win Street Cuyahoga
Falls, Ohio 44223
(330) 253-8211

Analysis Request / Chain of Custody

<http://www.abrahamson.com>

LAB
WO
NO

20417965

For Allmetal Technical Grand-ITC-4500 use only

Effective Date: 3/13/2025

Q3707

[illegible]

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312