

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : AE1-CTY 3.2.Z-PR-DOCK-DES-ODC - 60693795-1719206

AECOM

605 3rd Avenue

29th Floor

New York, NY - 10158

Phone No: 212-973-2900

ORDER ID : Q3363

ATTENTION : Rob Forstner



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3363

Project ID : AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client : AECOM

Lab Sample Number

Q3363-01
Q3363-02
Q3363-03
Q3363-04
Q3363-05

Client Sample Number

PR132-SO1-085011-20251015
PR132-SO1-039085-20251015
PR132-SO3-028010-20251015
PR132-SO3-010013-20251015
COMP01-20251015

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: 10/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

AECOM

Project Name: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Project # N/A

Order ID # Q3363

Test Name: Hexavalent Chromium,TOC

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 10/15/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium,TOC. This data package contains results for Hexavalent Chromium,TOC.

C. Analytical Techniques:

The analysis of Hexavalent Chromium was based on method 7196A and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

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

The Calibration met the requirements.

E. Additional Comments:

Lab has used least representable sample weight for the sample Q3363-01, Q3363-02, Q3363-03, Q3363-04 and Q3363-05 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

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

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3363

MATRIX: Solid

METHOD: 7196A,Lloyd Kahn

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Matrix Spike Duplicate Recoveries Met Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all compounds.			
3. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
4. Digestion Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Lab has used least representable sample weight for the sample Q3363-01, Q3363-02, Q3363-03, Q3363-04 and Q3363-05 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

 QA REVIEW

 Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3363

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/24/2025

LAB CHRONICLE

OrderID:	Q3363	OrderDate:	10/16/2025 10:56:42 AM
Client:	AECOM	Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC -
Contact:	Rob Forstner	Location:	DOCK 3.2.Z-PR-DOCK-Des-ODC - Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3363-01	PR132-SO1-085011-2 0251015	SOIL	Hexavalent Chromium	7196A	10/15/25 11:57	10/20/25	10/20/25	10/15/25
			TOC	Lloyd Kahn			15:07 10/20/25 11:03	
Q3363-02	PR132-SO1-039085-2 0251015	SOIL	Hexavalent Chromium	7196A	10/15/25 12:10	10/20/25	10/20/25	10/15/25
			TOC	Lloyd Kahn			15:08 10/20/25 11:24	
Q3363-03	PR132-SO3-028010-2 0251015	SOIL	Hexavalent Chromium	7196A	10/15/25 13:15	10/20/25	10/20/25	10/15/25
			TOC	Lloyd Kahn			15:08 10/20/25 11:40	
Q3363-04	PR132-SO3-010013-2 0251015	SOIL	Hexavalent Chromium	7196A	10/15/25 13:30	10/20/25	10/20/25	10/15/25
			TOC	Lloyd Kahn			15:09 10/20/25 12:00	
Q3363-05	COMP01-20251015	SOIL	Hexavalent Chromium	7196A	10/15/25 13:53	10/20/25	10/20/25 15:09	10/15/25

LAB CHRONICLE

TOC

Lloyd Kahn

10/20/25
12:20



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-SO1-085011-20251015
Lab Sample ID: Q3363-01

Date Collected: 10/15/25 11:57
Date Received: 10/15/25
SDG No.: Q3363
Matrix: SOIL
% Solid: 50.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.78	U	1	0.14	0.78	mg/Kg	10/20/25 11:50	10/20/25 15:07	7196A
TOC	34300	OR	1	43.4	250	mg/Kg		10/20/25 11:03	Lloyd Kahn

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: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-SO1-039085-20251015
Lab Sample ID: Q3363-02

Date Collected: 10/15/25 12:10
Date Received: 10/15/25
SDG No.: Q3363
Matrix: SOIL
% Solid: 56.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.70	U	1	0.12	0.70	mg/Kg	10/20/25 11:50	10/20/25 15:08	7196A
TOC	30800	OR	1	43.4	250	mg/Kg		10/20/25 11:24	Lloyd Kahn

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: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-SO3-028010-20251015
Lab Sample ID: Q3363-03

Date Collected: 10/15/25 13:15
Date Received: 10/15/25
SDG No.: Q3363
Matrix: SOIL
% Solid: 54.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.72	U	1	0.13	0.72	mg/Kg	10/20/25 11:50	10/20/25 15:08	7196A
TOC	28600	OR	1	43.4	250	mg/Kg		10/20/25 11:40	Lloyd Kahn

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: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-SO3-010013-20251015
Lab Sample ID: Q3363-04

Date Collected: 10/15/25 13:30
Date Received: 10/15/25
SDG No.: Q3363
Matrix: SOIL
% Solid: 51.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.76	U	1	0.13	0.76	mg/Kg	10/20/25 11:50	10/20/25 15:09	7196A
TOC	31500	OR	1	43.4	250	mg/Kg		10/20/25 12:00	Lloyd Kahn

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: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: COMP01-20251015
Lab Sample ID: Q3363-05

Date Collected: 10/15/25 13:53
Date Received: 10/15/25
SDG No.: Q3363
Matrix: SOIL
% Solid: 55.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.71	U	1	0.12	0.71	mg/Kg	10/20/25 11:50	10/20/25 15:09	7196A
TOC	24300	OR	1	43.4	250	mg/Kg		10/20/25 12:20	Lloyd Kahn

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: AECOM

SDG No.: Q3363

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137582

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	968	1000	97	90-110	07/22/2025
Sample ID: CCV1 TOC	mg/L	1030	1000	103	90-110	10/20/2025
Sample ID: CCV2 TOC	mg/L	1050	1000	105	90-110	10/20/2025
Sample ID: CCV3 TOC	mg/L	1010	1000	101	90-110	10/20/2025

Initial and Continuing Calibration Verification

Client: AECOM

SDG No.: Q3363

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137587

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	10/20/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	10/20/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	10/20/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.490	0.5	98	90-110	10/20/2025
Sample ID: CCV4 Hexavalent Chromium	mg/L	0.492	0.5	98	90-110	10/20/2025

Initial and Continuing Calibration Blank Summary

Client: AECOM

SDG No.: Q3363

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137582

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	07/22/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/20/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/20/2025
Sample ID: CCB3 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/20/2025

Initial and Continuing Calibration Blank Summary

Client: AECOM

SDG No.: Q3363

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137587

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/20/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/20/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/20/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/20/2025
Sample ID: CCB4 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/20/2025

Preparation Blank Summary

Client: AECOM

SDG No.: Q3363

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137582BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	43.4	250	10/20/2025
Sample ID: PB170150BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	10/20/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3375-05
Client ID:	PR132-DP02-20251016MS	Percent Solids for Spike Sample:	66.7

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	31100	OR	30000	OR	1000	1	110		10/20/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3375-05
Client ID:	PR132-DP02-20251016MSD	Percent Solids for Spike Sample:	66.7

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	31200	OR	30000	OR	1000	1	120		10/20/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3392-01
Client ID:	MH-20MS	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1370		0.077	U	1420	40	96		10/20/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3392-01
Client ID:	MH-20MS	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	43.0		0.077	U	44.3	2	97		10/20/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3392-01
Client ID:	MH-20MS	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	38.6		0.077	U	44.3	2	87		10/20/2025

Duplicate Sample Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Sample ID:	Q3375-05
Client ID:	PR132-DP02-20251016MSD	Percent Solids for Spike Sample:	66.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	31100	OR	31200	OR	1	0		10/20/2025

Duplicate Sample Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Sample ID:	Q3392-01
Client ID:	MH-20DUP	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.077	U	0.077	U	1	0		10/20/2025

Laboratory Control Sample Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Run No.:	LB137582

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137582BSS							
TOC	mg/Kg	1000	1030		103	1	90-110	10/20/2025

Laboratory Control Sample Summary

Client:	AECOM	SDG No.:	Q3363
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Run No.:	LB137587

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170150BS							
Hexavalent Chromium	mg/Kg	20	19.7		98	1	84-110	10/20/2025



RAW DATA

- 1
- 2
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- 4
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- 10
- 11
- 12
- 13
- 14

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1034.9200			TOC	
CCV1	1042.3741			TOC	
CCV1	1007.4788			TOC	
CCV1.....	1035.1851...	..	...	TOC	..
CCB1	4.5186			TOC	
CCB1	3.3049			TOC	
CCB1.....	2.3299...	..	...	TOC	..
CCB1	12.7026			TOC	
LB137582BLS	5.5222			TOC	
LB137582BLS.....	3.5511...	..	...	TOC	..
LB137582BLS	2.8187			TOC	
LB137582BLS	2.8770			TOC	
LB137582BSS.....	1012.9642...	..	...	TOC	..
LB137582BSS	1027.5247			TOC	
LB137582BSS	1032.0194			TOC	
LB137582BSS.....	1038.3690...	..	...	TOC	..
Q3363-01	35726.4844			TOC	
Q3363-01	34648.4688			TOC	
Q3363-01.....	32815.1445...	..	...	TOC	..
Q3363-01	33868.7109			TOC	
Q3363-02	32877.9961			TOC	
Q3363-02.....	31361.9883...	..	...	TOC	..
Q3363-02	31522.8594			TOC	
Q3363-02	27313.3164			TOC	
Q3363-03.....	27537.5469...	..	...	TOC	..
Q3363-03	30014.7520			TOC	
Q3363-03	26633.3164			TOC	
Q3363-03.....	30065.8105...	..	...	TOC	..
Q3363-04	31560.3965			TOC	
Q3363-04	31661.3789			TOC	
Q3363-04.....	29003.9883...	..	...	TOC	..
Q3363-04	33636.7891			TOC	
Q3363-05	28086.6875			TOC	
Q3363-05.....	22532.2324...	..	...	TOC	..
Q3363-05	23806.9062			TOC	
Q3363-05	22851.6973			TOC	
Q3375-01.....	23825.6914...	..	...	TOC	..
Q3375-01	15809.2764			TOC	
Q3375-01	18168.8594			TOC	
Q3375-01.....	20640.9102...	..	...	TOC	..
Q3375-02	15739.0059			TOC	
Q3375-02	18377.2637			TOC	
Q3375-02.....	18070.8828...	..	...	TOC	..
Q3375-02	15850.4111			TOC	
Q3375-03	26099.5332			TOC	
Q3375-03.....	27133.1055...	..	...	TOC	..
Q3375-03	30383.0215			TOC	
Q3375-03	27041.6777			TOC	
CCV2.....	1060.2914...	..	...	TOC	..
CCV2	1018.4080			TOC	
CCV2	1064.2057			TOC	
CCV2.....	1037.2100...	..	...	TOC	..
CCB2	12.5114			TOC	
CCB2	37.0193			TOC	
CCB2.....	15.3408...	..	...	TOC	..
CCB2	28.4010			TOC	
Q3375-04	28768.8809			TOC	
Q3375-04.....	25522.3887...	..	...	TOC	..
Q3375-04	24201.8848			TOC	
Q3375-04	26601.6230			TOC	
Q3375-05.....	30584.4375...	..	...	TOC	..
Q3375-05	29310.5547			TOC	
Q3375-05	29621.8125			TOC	
Q3375-05.....	30631.0391...	..	...	TOC	..

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Q3375-05MS	31378.4316		TOC	
Q3375-05MS	30622.5664		TOC	
Q3375-05MS.....	30594.4180...	..	...TOC	..
Q3375-05MS	31986.8633		TOC	
Q3375-05MSD	28322.0664		TOC	
Q3375-05MSD.....	31450.6953...	..	...TOC	..
Q3375-05MSD	32078.4746		TOC	
Q3375-05MSD	33090.3555		TOC	
CCV3.....	1077.6526...	..	...TOC	..
CCV3	1006.5046		TOC	
CCV3	990.1056		TOC	
CCV3.....	958.2684...	..	...TOC	..
CCB3	3.5254		TOC	
CCB3	2.0890		TOC	
CCB3.....	26.7337...	..	...TOC	..
CCB3	31.4417		TOC	

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Method ID		Sample Type	Vial Timestamp		Message		
Boat Sampler		Sample	2025/10/20	09:49			
Boat Sampler		Sample	2025/10/20	09:52			
Boat Sampler		Sample	2025/10/20	09:54			
Boat Sampler	...	Sample	..	..2025/10/20	09:57	..	1
Boat Sampler		Sample	2025/10/20	10:03	Low Sample Detected		2
Boat Sampler		Sample	2025/10/20	10:07	Low Sample Detected		
Boat Sampler	...	Sample	..	..2025/10/20	10:10	..Low Sample Detected	3
Boat Sampler		Sample	2025/10/20	10:13	Low Sample Detected		
Boat Sampler		Sample	2025/10/20	10:16	Low Sample Detected		4
Boat Sampler	...	Sample	..	..2025/10/20	10:19	..Low Sample Detected	
Boat Sampler		Sample	2025/10/20	10:23	Low Sample Detected		5
Boat Sampler		Sample	2025/10/20	10:26	Low Sample Detected		
Boat Sampler	...	Sample	..	..2025/10/20	10:29	..	6
Boat Sampler		Sample	2025/10/20	10:31			
Boat Sampler		Sample	2025/10/20	10:33			7
Boat Sampler	...	Sample	..	..2025/10/20	10:35	..	
Boat Sampler		Sample	2025/10/20	10:48			8
Boat Sampler		Sample	2025/10/20	10:53			
Boat Sampler	...	Sample	..	..2025/10/20	10:58	..	9
Boat Sampler		Sample	2025/10/20	11:03			
Boat Sampler		Sample	2025/10/20	11:09			10
Boat Sampler	...	Sample	..	..2025/10/20	11:13	..	
Boat Sampler		Sample	2025/10/20	11:20			11
Boat Sampler		Sample	2025/10/20	11:24			
Boat Sampler	...	Sample	..	..2025/10/20	11:27	..	12
Boat Sampler		Sample	2025/10/20	11:32			13
Boat Sampler		Sample	2025/10/20	11:36			
Boat Sampler	...	Sample	..	..2025/10/20	11:40	..	14
Boat Sampler		Sample	2025/10/20	11:45			
Boat Sampler		Sample	2025/10/20	11:51			
Boat Sampler	...	Sample	..	..2025/10/20	11:55	..	
Boat Sampler		Sample	2025/10/20	12:00			
Boat Sampler		Sample	2025/10/20	12:05			
Boat Sampler	...	Sample	..	..2025/10/20	12:10	..	
Boat Sampler		Sample	2025/10/20	12:14			
Boat Sampler		Sample	2025/10/20	12:20			
Boat Sampler	...	Sample	..	..2025/10/20	12:25	..	
Boat Sampler		Sample	2025/10/20	12:28			
Boat Sampler		Sample	2025/10/20	12:34			
Boat Sampler	...	Sample	..	..2025/10/20	12:38	..	
Boat Sampler		Sample	2025/10/20	12:46			
Time Reached							
Boat Sampler		Sample	2025/10/20	12:50			
Boat Sampler	...	Sample	..	..2025/10/20	12:55	..	
Boat Sampler		Sample	2025/10/20	12:59			
Boat Sampler		Sample	2025/10/20	13:03			
Boat Sampler	...	Sample	..	..2025/10/20	13:08	..	
Boat Sampler		Sample	2025/10/20	13:13			
Boat Sampler		Sample	2025/10/20	13:18			
Boat Sampler	...	Sample	..	..2025/10/20	13:22	..	
Boat Sampler		Sample	2025/10/20	13:24			
Boat Sampler		Sample	2025/10/20	13:26			
Boat Sampler	...	Sample	..	..2025/10/20	13:29	..	
Boat Sampler		Sample	2025/10/20	13:31			
Boat Sampler		Sample	2025/10/20	13:34			
Boat Sampler	...	Sample	..	..2025/10/20	13:40	..	
Boat Sampler		Sample	2025/10/20	13:42			
Boat Sampler		Sample	2025/10/20	13:48			
Boat Sampler	...	Sample	..	..2025/10/20	13:53	..	
Boat Sampler		Sample	2025/10/20	13:56			
Boat Sampler		Sample	2025/10/20	14:01			
Boat Sampler	...	Sample	..	..2025/10/20	14:06	..	
Boat Sampler		Sample	2025/10/20	14:10			
Boat Sampler		Sample	2025/10/20	14:15			

Boat Sampler	...	Sample	..	..	2025/10/20 14:34	..	Reviewed By:Iwona On:10/23/2025 1:38:02 PM Inst Id :Appolo-9000 LB :LB137582
Boat Sampler		Sample			2025/10/20 14:42	..	
Boat Sampler		Sample			2025/10/20 14:48		
Boat Sampler	...	Sample	..	..	2025/10/20 14:53	..	
Boat Sampler		Sample			2025/10/20 15:37		
Boat Sampler		Sample			2025/10/20 15:41		
Boat Sampler	...	Sample	..	..	2025/10/20 15:46	..	
Boat Sampler		Sample			2025/10/20 15:50		
Boat Sampler		Sample			2025/10/20 16:04		
Boat Sampler	...	Sample	..	..	2025/10/20 16:24	..	
Boat Sampler		Sample			2025/10/20 16:26		
Boat Sampler		Sample			2025/10/20 16:35		
Boat Sampler	...	Sample	..	..	2025/10/20 16:37	..	
Boat Sampler		Sample			2025/10/20 16:41	Low Sample Detected	
Boat Sampler		Sample			2025/10/20 16:55	Low Sample Detected	
Boat Sampler	...	Sample	..	..	2025/10/20 16:56	..	
Boat Sampler		Sample			2025/10/20 17:05		

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Last Message: Low Sample Detected
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Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 10201007
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:10
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.3299	0.0932	6916	-1.961	-1.983	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 10201010
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:13
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.7026	0.5081	37708	-1.995	-2.000	120

Last Message: Low Sample Detected
=====

Sample ID: LB137582BLS Mode: TOC
Method: Boat Sampler Filename: 10201013
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.5222	0.2209	16393	-2.013	-2.055	120

Last Message: Low Sample Detected
=====

Sample ID: LB137582BLS Mode: TOC
Method: Boat Sampler Filename: 10201017
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:19
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5511	0.1420	10541	-2.022	-2.047	120

Last Message: Low Sample Detected
=====

Sample ID: LB137582BLS Mode: TOC
Method: Boat Sampler Filename: 10201020
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.8187	0.1127	8367	-2.046	-2.054	120

Last Message: Low Sample Detected
=====

Sample ID: LB137582BLS Mode: TOC
Method: Boat Sampler Filename: 10201023
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.8770	0.1151	8540	-2.097	-2.111	120

Last Message: Low Sample Detected
=====

Sample ID: LB137582BSS Mode: TOC
Method: Boat Sampler Filename: 10201027
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:29
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1012.9642	40.5186	3006991	-2.113	-1.113	71

Sample ID: LB137582BSS Mode: TOC
Method: Boat Sampler Filename: 10201029
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:31
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1027.5247	41.1010	3050213	-1.829	-0.837	69

Sample ID: LB137582BSS Mode: TOC
Method: Boat Sampler Filename: 10201031
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:33
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1032.0194	41.2808	3063556	-1.691	-0.693	65

Sample ID: LB137582BSS Mode: TOC
Method: Boat Sampler Filename: 10201034
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:35
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1038.3690	41.5348	3082405	-1.761	-0.763	68

Sample ID: Q3363-01 Mode: TOC
Method: Boat Sampler Filename: 10201043
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:48
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	35726.4844	210.7863	15643009	-1.981	2.550	240

Last Message: Max Integration Time Reached
=====

Sample ID: Q3363-01 Mode: TOC
Method: Boat Sampler Filename: 10201048
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:53
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34648.4688	218.2854	16199536	0.014	2.788	240

=====

Sample ID: Q3363-01 Mode: TOC
Method: Boat Sampler Filename: 10201054
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 10:58
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32815.1445	196.8909	14611794	2.110	3.110	215

=====

Sample ID: Q3363-01 Mode: TOC
Method: Boat Sampler Filename: 10201059
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 11:03
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33868.7109	196.4385	14578224	1.983	2.982	184

=====

Sample ID: Q3363-02 Mode: TOC
Method: Boat Sampler Filename: 10201104
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 11:09
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32877.9961	203.8436	15127774	-1.373	4.459	240

=====

Sample ID: Q3363-02 Mode: TOC
Method: Boat Sampler Filename: 10201110
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 11:13
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31361.9883	166.2185	12335519	8.675	9.670	150

=====

Sample ID: Q3363-02 Mode: TOC
Method: Boat Sampler Filename: 10201117
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 11:20
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31522.8594	173.3757	12866673	5.207	6.195	166

Sample ID: Q3363-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201121
Timestamp: 2025/10/20 11:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27313.3164	150.2232	11148465	8.892	9.879	133

Sample ID: Q3363-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201125
Timestamp: 2025/10/20 11:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27537.5469	143.1952	10626899	13.796	14.769	128

Sample ID: Q3363-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201128
Timestamp: 2025/10/20 11:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30014.7520	165.0811	12251109	3.833	4.831	170

Sample ID: Q3363-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201133
Timestamp: 2025/10/20 11:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26633.3164	157.1366	11661522	6.414	7.410	143

Sample ID: Q3363-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201136
Timestamp: 2025/10/20 11:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30065.8105	159.3488	11825698	2.231	3.229	173

Sample ID: Q3363-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201141
Timestamp: 2025/10/20 11:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
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				Baseline	Baseline	Time	
1	31560.3965	195.6745	14521521	-0.363	2.896	240	
=====							
Sample ID: Q3363-04				Mode:	TOC		
Method: Boat Sampler				Filename:	10201146		
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 11:51		
Operator ID: RM IZ				Sample Type:	Sample		
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time	
1	31661.3789	183.6360	13628115	-0.294	3.866	240	
=====							
Sample ID: Q3363-04				Mode:	TOC		
Method: Boat Sampler				Filename:	10201151		
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 11:55		
Operator ID: RM IZ				Sample Type:	Sample		
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time	
1	29003.9883	150.8207	11192808	4			
.600	5.600	172					
=====							
Sample ID: Q3363-04				Mode:	TOC		
Method: Boat Sampler				Filename:	10201155		
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 12:00		
Operator ID: RM IZ				Sample Type:	Sample		
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time	
1	33636.7891	195.0934	14478397	1.631	4.665	240	
=====							
Sample ID: Q3363-05				Mode:	TOC		
Method: Boat Sampler				Filename:	10201201		
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 12:05		
Operator ID: RM IZ				Sample Type:	Sample		
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time	
1	28086.6875	165.7115	12297887	-1.195	0.059	240	
=====							
Sample ID: Q3363-05				Mode:	TOC		
Method: Boat Sampler				Filename:	10201206		
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 12:10		
Operator ID: RM IZ				Sample Type:	Sample		
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time	
1	22532.2324	130.6870	9698626	0.118	1.114	192	
=====							

Sample ID: Q3363-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201211
Timestamp: 2025/10/20 12:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23806.9062	140.4608	10423965	0.755	1.753	177

Sample ID: Q3363-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201216
Timestamp: 2025/10/20 12:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22851.6973	130.2547	9666546	-1.179	-0.179	199

Sample ID: Q3375-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201220
Timestamp: 2025/10/20 12:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23825.6914	133.4239	9901740	-0.969	6.328	240

Sample ID: Q3375-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201226
Timestamp: 2025/10/20 12:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15809.2764	88.5319	6570191	14.473	15.469	67

Sample ID: Q3375-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201229
Timestamp: 2025/10/20 12:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18168.8594	116.2807	8629500	0.182	1.198	240

Sample ID: Q3375-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201235
Timestamp: 2025/10/20 12:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20640.9102	111.4609	8271811	-1.571	-0.572	184

Sample ID: Q3375-02 Mode: TOC
Method: Boat Sampler Filename: 10201241
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 12:46
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15739.0059	97.5818	7241807	-2.178	3.464	240

Sample ID: Q3375-02 Mode: TOC
Method: Boat Sampler Filename: 10201247
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 12:50
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18377.2637	113.9390	8455718	-0.685	0.307	134

Sample ID: Q3375-02 Mode: TOC
Method: Boat Sampler Filename: 10201251
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 12:55
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18070.8828	104.8111	7778312	-2.100	-1.101	164

Sample ID: Q3375-02 Mode: TOC
Method: Boat Sampler Filename: 10201255
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 12:59
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15850.4111	91.9324	6822547	1.662	2.656	158

Sample ID: Q3375-03 Mode: TOC
Method: Boat Sampler Filename: 10201300
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:03
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26099.5332	135.7176	10071961	4.093	5.082	141

Sample ID: Q3375-03 Mode: TOC
Method: Boat Sampler Filename: 10201304
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:08
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27133.1055	151.9454	11276271	-1.329	2.129	240

Sample ID: Q3375-03 Mode: TOC
Method: Boat Sampler Filename: 10201309
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:13
Operator ID: RM IZ
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30383.0215	164.0683	12175945	-0.317	0.681	216

Sample ID: Q3375-03 Mode: TOC
Method: Boat Sampler Filename: 10201314
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:18
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27041.6777	151.4334	11238274	1.931	2.929	187

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 10201319
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:22
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1060.2914	42.4117	3147481	-2.071	-1.073	71

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 10201322
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:24
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1018.4080	40.7363	3023150	-1.590	-0.594	66

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 10201325
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1064.2057	42.5682	3159101	-0.971	0.025	65

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 10201327
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 13:29
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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1	1037.2100	41.4884	3078964	-1.932	-0.939	70
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Sample ID:	CCB2	Mode:	TOC
Method:	Boat Sampler	Filename:	10201330
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:31
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.5114	0.5005	37140	-1.843	-0.855	38

Sample ID:	CCB2	Mode:	TOC
Method:	Boat Sampler	Filename:	10201333
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:34
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	37.0193	1.4808	109892	2.541	3.512	32

Sample ID:	CCB2	Mode:	TOC
Method:	Boat Sampler	Filename:	10201338
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:40
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15.3408	0.6136	45539	-2.119	-1.128	59

Sample ID:	CCB2	Mode:	TOC
Method:	Boat Sampler	Filename:	10201340
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:42
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.4010	1.1360	84309	-2.183	-1.191	47

Sample ID:	Q3375-04	Mode:	TOC
Method:	Boat Sampler	Filename:	10201343
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:48
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28768.8809	161.1057	11956084	-1.865	-0.728	241

Sample ID:	Q3375-04	Mode:	TOC
Method:	Boat Sampler	Filename:	10201348
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:53
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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1	25522.3887	148.0299	10985689	-0.144	0.856	230
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Sample ID:	Q3375-04	Mode:	TOC
Method:	Boat Sampler	Filename:	10201353
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 13:56
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24201.8848	140.3709	10417300	8.306	9.293	144

Sample ID:	Q3375-04	Mode:	TOC
Method:	Boat Sampler	Filename:	10201357
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 14:01
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26601.6230	162.2699	12042480	3.981	4.975	185

Sample ID:	Q3375-05	Mode:	TOC
Method:	Boat Sampler	Filename:	10201401
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 14:06
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30584.4375	186.5651	13845489	1.620	2.617	224

Sample ID:	Q3375-05	Mode:	TOC
Method:	Boat Sampler	Filename:	10201406
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 14:10
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29310.5547	167.0702	12398720	4.463	5.459	189

Sample ID:	Q3375-05	Mode:	TOC
Method:	Boat Sampler	Filename:	10201411
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 14:15
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29621.8125	165.8821	12310555	3.921	8.106	240

Sample ID:	Q3375-05	Mode:	TOC
Method:	Boat Sampler	Filename:	10201430
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/20 14:34
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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1	30631.0391	177.6600	13184623	1.664	5.605	240
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Sample ID: Q3375-05MS				Mode:	TOC	
Method: Boat Sampler				Filename:	10201438	
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 14:42	
Operator ID: RM IZ				Sample Type:	Sample	
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31378.4316	188.2706	13972060	-2.198	3.267	240
=====						

Sample ID: Q3375-05MS				Mode:	TOC	
Method: Boat Sampler				Filename:	10201444	
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 14:48	
Operator ID: RM IZ				Sample Type:	Sample	
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30622.5664	183.7354	13635492	5.070	6.064	217
=====						

Sample ID: Q3375-05MS				Mode:	TOC	
Method: Boat Sampler				Filename:	10201450	
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 14:53	
Operator ID: RM IZ				Sample Type:	Sample	
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30594.4180	156.0315	11579514	4.613	5.610	154
=====						

Sample ID: Q3375-05MS				Mode:	TOC	
Method: Boat Sampler				Filename:	10201534	
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 15:37	
Operator ID: RM IZ				Sample Type:	Sample	
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31986.8633	188.7225	14005597	9.392	10.391	153
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Sample ID: Q3375-05MSD				Mode:	TOC	
Method: Boat Sampler				Filename:	10201538	
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 15:41	
Operator ID: RM IZ				Sample Type:	Sample	
Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28322.0664	169.9324	12611135	14.705	15.689	137
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Sample ID: Q3375-05MSD				Mode:	TOC	
Method: Boat Sampler				Filename:	10201541	
Cal. Curve: TOC SOIL				Timestamp:	2025/10/20 15:46	
Operator ID: RM IZ				Sample Type:	Sample	

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31450.6953	204.4295	15171258	3.637	4.732	240

Sample ID: Q3375-05MSD Mode: TOC
Method: Boat Sampler Filename: 10201547
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 15:50
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32078.4746	192.4708	14283773	8.646	9.633	170

Sample ID: Q3375-05MSD Mode: TOC
Method: Boat Sampler Filename: 10201559
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 16:04
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33090.3555	215.0873	15962200	1.428	7.528	240

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10201622
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 16:24
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1077.6526	43.1061	3199019	-1.783	-0.784	72

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10201624
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 16:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1006.5046	40.2602	2987815	-1.879	-0.885	70

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10201634
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 16:35
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	990.1056	39.6042	2939135	0.614	1.586	55

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10201636
Cal. Curve: TOC SOIL Timestamp: 2025/10/20 16:37

Operator ID: RM IZ

Sample Type: Sample

Reviewed By:Iwona
On:10/23/2025 1:38:02
PM
Inst Id :Appolo-9000
LB :LB137582

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	958.2684	38.3307	2844626	2.400	3.388	56

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201639
Timestamp: 2025/10/20 16:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5254	0.1410	10465	-2.011	-2.252	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201652
Timestamp: 2025/10/20 16:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0890	0.0836	6201	-2.177	-2.279	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201655
Timestamp: 2025/10/20 16:56

Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26.7337	1.0693	79359	-2.260	-1.272	40

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10201704
Timestamp: 2025/10/20 17:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31.4417	1.2577	93335	-1.998	-1.005	41

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	9654	4527	46.90	TOC	
250mg/l	815484	52798	6.47	TOC	
500mg/l	1674242	35888	2.14	TOC	
1000mg/l.....	3145790...	89290..	2.84...	TOC	..
2000mg/l	5974688	94378	1.58	TOC	
ICV	972.3586			TOC	
ICV.....	961.9182...	..	...	TOC	..
ICV	968.0812			TOC	
ICV	969.9279			TOC	
ICB.....	4.2936...	..	...	TOC	..
ICB	4.9668			TOC	
ICB	3.5644			TOC	
ICB.....	7.3627...	..	...	TOC	..

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Method ID	Sample Type	Vial Timestamp		Message
Boat Sampler	TOC Standard	2025/07/22	10:12	Low Sample Detected
Boat Sampler	TOC Standard	2025/07/22	10:21	
Boat Sampler	TOC Standard	2025/07/22	10:29	
Boat Sampler	...TOC Standard	..	..2025/07/22 10:39	..
Boat Sampler	TOC Standard	2025/07/22	10:50	
Boat Sampler	Sample	2025/07/22	10:56	
Boat Sampler	...Sample	..	..2025/07/22 10:58	..
Boat Sampler	Sample	2025/07/22	11:01	
Boat Sampler	Sample	2025/07/22	11:03	
Boat Sampler	...Sample	..	..2025/07/22 11:10	..Low Sample Detected
Boat Sampler	Sample	2025/07/22	11:13	Low Sample Detected
Boat Sampler	Sample	2025/07/22	11:16	Low Sample Detected
Boat Sampler	...Sample	..	..2025/07/22 11:19	..Low Sample Detected

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Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 07221040
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 10:50
Operator ID: RM IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5833243	-1.688	-0.691	105
2			6019740	-1.376	-0.378	97
3			6018462	-1.273	-0.275	92
4			6027308	-1.269	-0.272	94

<<<Statistics>>> Mean: 5974688 Std Dev: 94378 RSD: 1.58

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 07221054
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 10:56
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	972.3586	38.8943	2886453	-1.846	-0.848	70

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 07221056
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 10:58
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	961.9182	38.4767	2855460	-1.619	-0.620	66

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 07221059
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 11:01
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	968.0812	38.7232	2873755	-1.730	-0.731	68

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 07221101
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 11:03
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	969.9279	38.7971	2879237	-1.619	-0.623	67

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 07221107
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 11:10
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2936	0.1717	12746	-1.840	-1.885	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 07221110
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 11:13
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9668	0.1987	14744	-1.910	-1.920	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 07221114
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 11:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5644	0.1426	10581	-1.892	-1.896	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 07221117
Cal. Curve: TOC SOIL Timestamp: 2025/07/22 11:19
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.3627	0.2945	2			
1856	-1.846	-1.882	120			

Last Message: Low Sample Detected
=====

Cal. Curve ID: TOC SOIL
Created: 2025/07/22 10:51
Calibration Factor (m): 7.421e+04
Y Intercept (b): 97592
r-squared: 0.99879

Standard ID	Y	X Expected	Measured	Message	Date & Time
	Raw Data	ug C	ug C		
BLANK	9653	0.000	-1.185	-	2025/07/22 10:12
250mg/l	815483	10.000	9.673	-3.3	2025/07/22 10:21
500mg/l	1674242	20.000	21.245	6.2	2025/07/22 10:29
1000mg/l	3145790	40.000	41.074	2.7	2025/07/22 10:39
2000mg/l	5974688	80.000	79.193	-0.3	2025/07/22 10:50

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7/22/25

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOC. WorkList ID : 192545 Department : Wet-Chemistry Date : 10-17-2025 17:39:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3363-01	PR132-SO1-085011-20251015	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/15/2025	Lloyd Kahn
Q3363-02	PR132-SO1-039085-20251015	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/15/2025	Lloyd Kahn
Q3363-03	PR132-SO3-028010-20251015	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/15/2025	Lloyd Kahn
Q3363-04	PR132-SO3-010013-20251015	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/15/2025	Lloyd Kahn
Q3363-05	COMP01-20251015	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/15/2025	Lloyd Kahn
Q3375-01	PR132-S02-074099-20251016	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/16/2025	Lloyd Kahn
Q3375-02	PR132-S04-000013-20251016	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/16/2025	Lloyd Kahn
Q3375-03	PR132-S05-000057-20251016	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/16/2025	Lloyd Kahn
Q3375-04	PR132-S02-010074-20251016	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/16/2025	Lloyd Kahn
Q3375-05	PR132-DP02-074099-20251016	Solid	TOC	Cool 4 deg C	AEEO02	D31	10/16/2025	Lloyd Kahn

Date/Time 10/20/25 09:10 Date/Time 10/20/25 12:30
Raw Sample Received by: [Signature] Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature] Raw Sample Relinquished by: [Signature]

- 1
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Analytical Summary Report

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB137587

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP115235
5N sulfuric acid	WP112831
HNO3 Hex-Chrome, 5M	WP112830
Hexchrome Cleaning Solution	WP114310

Intercept: 0.0001

Slope: 0.7676

Regression: 0.999988

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HNO3	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.34	1.90	0.000	0.000	0.000	-0.00		10/20/2025	15:00
2	CAL2	0.01	1	100	100	7.39	2.04	0.000	0.008	0.008	0.010	0	10/20/2025	15:00
3	CAL3	0.025	1	100	100	7.52	2.06	0.000	0.020	0.020	0.025	0	10/20/2025	15:01
4	CAL4	0.05	1	100	100	7.46	2.01	0.000	0.038	0.038	0.049	-2	10/20/2025	15:01
5	CAL5	0.1	1	100	100	7.44	1.92	0.000	0.078	0.078	0.101	1	10/20/2025	15:02
6	CAL6	0.5	1	100	100	7.49	1.90	0.000	0.381	0.381	0.496	-0.8	10/20/2025	15:02
7	CAL7	1	1	100	100	7.33	2.00	0.000	0.769	0.769	1.001	0.1	10/20/2025	15:03

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB137587

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.42	1.96	0.000	0.379	0.379	0.494	10/20/2025	15:03
2	ICB		1	100	100	7.30	2.06	0.000	0.001	0.001	0.001	10/20/2025	15:04
3	CCV1	0.5	1	100	100	7.36	1.93	0.000	0.380	0.380	0.495	10/20/2025	15:04
4	CCB1		1	100	100	7.42	1.88	0.000	0.001	0.001	0.001	10/20/2025	15:05
5	RL Check	0.01	1	100	100	7.39	2.04	0.000	0.009	0.009	0.012	10/20/2025	15:05
6	PB170150BL		1	2.50	100	7.44	1.90	0.000	0.000	0.000	0.000	10/20/2025	15:06
7	PB170150BS	20	1	2.50	100	7.52	1.99	0.000	0.378	0.378	0.492	10/20/2025	15:06
8	Q3272-01		1	2.53	100	7.36	2.10	0.002	0.003	0.001	0.001	10/20/2025	15:07
9	Q3363-01		1	2.57	100	7.52	2.06	0.036	0.037	0.001	0.001	10/20/2025	15:07
10	Q3363-02		1	2.51	100	7.40	1.88	0.037	0.037	0.000	0.000	10/20/2025	15:08
11	Q3363-03		1	2.54	100	7.39	1.90	0.035	0.036	0.001	0.001	10/20/2025	15:08
12	Q3363-04		1	2.54	100	7.32	2.10	0.038	0.038	0.000	0.000	10/20/2025	15:09
13	Q3363-05		1	2.55	100	7.52	2.06	0.035	0.035	0.000	0.000	10/20/2025	15:09
14	Q3366-01		1	2.51	100	7.59	2.22	0.000	0.001	0.001	0.001	10/20/2025	15:10
15	Q3366-03		1	2.57	100	7.44	2.14	0.002	0.005	0.003	0.004	10/20/2025	15:10
16	CCV2	0.5	1	100	100	7.40	2.07	0.000	0.379	0.379	0.494	10/20/2025	15:11
17	CCB2		1	100	100	7.36	2.00	0.000	0.000	0.000	0.000	10/20/2025	15:11
18	Q3369-01		1	2.56	100	7.51	1.90	0.002	0.003	0.001	0.001	10/20/2025	15:12
19	Q3369-05		1	2.55	100	7.57	1.98	0.001	0.001	0.000	0.000	10/20/2025	15:12
20	Q3374-01		1	2.52	100	7.36	2.10	0.010	0.010	0.000	0.000	10/20/2025	15:13
21	Q3374-05		1	2.52	100	7.39	2.13	0.000	0.001	0.001	0.001	10/20/2025	15:14
22	Q3381-01		1	2.55	100	7.45	2.03	0.012	0.015	0.003	0.004	10/20/2025	15:14
23	Q3381-03		1	2.56	100	7.47	1.92	0.037	0.038	0.001	0.001	10/20/2025	15:15
24	Q3381-05		1	2.53	100	7.52	1.90	0.010	0.011	0.001	0.001	10/20/2025	15:15
25	Q3381-07		1	2.55	100	7.59	1.81	0.024	0.025	0.001	0.001	10/20/2025	15:16
26	Q3392-01		1	2.53	100	7.33	1.88	0.000	0.001	0.001	0.001	10/20/2025	15:16
27	Q3392-01DU		1	2.53	100	7.36	1.90	0.000	0.001	0.001	0.001	10/20/2025	15:17
28	CCV3	0.5	1	100	100	7.35	1.90	0.000	0.376	0.376	0.490	10/20/2025	15:17
29	CCB3		1	100	100	7.36	1.74	0.000	0.000	0.000	0.000	10/20/2025	15:18
30	Q3392-01MS	40	2	2.55	100	7.42	1.88	0.000	0.341	0.341	0.444	10/20/2025	15:18
31	Q3392-01MS	1284	40	2.54	100	7.33	1.94	0.000	0.604	0.604	0.787	10/20/2025	15:19
32	Q3392-01MS	40	2	2.53	100	7.40	1.90	0.000	0.377	0.377	0.491	10/20/2025	15:19
33	Q3392-05		1	2.58	100	7.40	2.10	0.037	0.038	0.001	0.001	10/20/2025	15:20
34	CCV4	0.5	1	100	100	7.47	1.88	0.000	0.378	0.378	0.492	10/20/2025	15:20
35	CCB4		1	100	100	7.55	1.90	0.000	0.001	0.001	0.001	10/20/2025	15:21

SOP ID : M3060A,7196A-Hex.Chromium-27

SDG No : N/A

Start Digest Date: 10/20/2025 Time : 11:50 Temp : 90 °C

Matrix : SOIL

End Digest Date: 10/20/2025 Time : 12:50 Temp : 93 °C

Pipette ID : WC

11 batch
10/20/2025 13:20 905
10/20/2025 14:20 915

Balance ID : WC SC-7

Hood ID : HOOD#3

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Block ID : WC S-2, WC S-1

Filter paper ID : 400213

Prep Technician Signature: *RM*

Weigh By : RM

pH Meter ID : WC pH meter-1

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP113880
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP113880
LCSS	1.0ML	WP113881
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP114900
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP115253
CAL3	CAL3	0.5ML	WP115253
CAL4	CAL4	1ML	WP115253
CAL5	CAL5	0.2ML	WP113880
CAL6	CAL6	1ML	WP113880
CAL7	CAL7	2.0ML	WP113880
ICV	ICV	1ML	WP113881
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP113880
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB170150BL	PBS150	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB170150BS	LCS150	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3272-01	VNJ-235	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3363-01	PR132-SO1-085011-20251015	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3363-02	PR132-SO1-039085-20251015	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3363-03	PR132-SO3-028010-20251015	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3363-04	PR132-SO3-010013-20251015	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3363-05	COMP01-20251015	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3366-01	TR-06-101625	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3366-03	TR-1-101625	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3369-01	MH-22	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3369-05	MH-21	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3374-01	TP-4-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3374-05	TP-5-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-01	VNJ-222	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-03	VNJ-245	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-05	RBR200059	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-07	VNJ-255	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3392-01	MH-20	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3392-01DUP	MH-20DUP	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3392-01MSPre	MH-20MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3392-01MS2Ins	MH-20MS2INS	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3392-01MS3Post	MH-20MS3POST	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3392-05	MH-19	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : HEX-10-17. WorkList ID : 192541 Department : Distillation Date : 10-17-2025 17:01:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3363-01	PR132-SO1-085011-20251015	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D31	10/15/2025	7196A
Q3363-02	PR132-SO1-039085-20251015	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D31	10/15/2025	7196A
Q3363-03	PR132-SO3-028010-20251015	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D31	10/15/2025	7196A
Q3363-04	PR132-SO3-010013-20251015	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D31	10/15/2025	7196A
Q3363-05	COMP01-20251015	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D31	10/15/2025	7196A
Q3366-01	TR-06-101625	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	D31	10/16/2025	7196A
Q3366-03	TR-1-101625	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	D31	10/16/2025	7196A
Q3369-01	MH-22	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/16/2025	7196A
Q3369-05	MH-21	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/16/2025	7196A
Q3374-01	TP-4-WC	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/16/2025	7196A
Q3374-05	TP-5-WC	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D41	10/16/2025	7196A
Q3381-01	VNJ-222	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D41	10/17/2025	7196A
Q3381-03	VNJ-245	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/17/2025	7196A
Q3381-05	RBR200059	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/17/2025	7196A
Q3381-07	VNJ-255	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/17/2025	7196A
Q3392-01	MH-20	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/17/2025	7196A
Q3392-05	MH-19	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/17/2025	7196A

Date/Time 10/20/2025 11:00
 Raw Sample Received by: RM (ws)
 Raw Sample Relinquished by: RM (ws)
 Date/Time 10/20/2025 14:00
 Raw Sample Received by: RM (ws)
 Raw Sample Relinquished by: RM (ws)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : hexq3272 WorkList ID : 192560 Department : Distillation Date : 10-20-2025 11:51:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3272-01	VNJ-235	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/02/2025	7196A

Date/Time 10/20/2025 12:30
 Raw Sample Received by: RH WSC
 Raw Sample Relinquished by: RH WSC

Date/Time 10/20/2025 14:00
 Raw Sample Received by: RH WSC
 Raw Sample Relinquished by: RH WSC

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137582

Review By	rubina	Review On	10/23/2025 8:51:01 AM
Supervise By	Iwona	Supervise On	10/23/2025 1:38:02 PM
SubDirectory	LB137582	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP114036,WP114037,WP114038,WP114039,WP114040		
ICV Standard	WP114041		
CCV Standard	WP115276		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115277		
Chk Standard	WP115035,WP115168		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	07/22/25 10:12		RM IZ	OK
2	250mg/l	250mg/l	CAL2	07/22/25 10:21		RM IZ	OK
3	500mg/l	500mg/l	CAL3	07/22/25 10:29		RM IZ	OK
4	1000mg/l	1000mg/l	CAL4	07/22/25 10:39		RM IZ	OK
5	2000mg/l	2000mg/l	CAL5	07/22/25 10:50		RM IZ	OK
6	ICV1	ICV1	ICV	07/22/25 11:03		RM IZ	OK
7	ICB1	ICB1	ICB	07/22/25 11:19		RM IZ	OK
8	CCV1	CCV1	CCV	10/20/25 09:57		RM IZ	OK
9	CCB1	CCB1	CCB	10/20/25 10:13		RM IZ	OK
10	LB137582BLS	LB137582BLS	MB	10/20/25 10:26		RM IZ	OK
11	LB137582BSS	LB137582BSS	LCS	10/20/25 10:35		RM IZ	OK
12	Q3363-01	PR132-SO1-085011-2	SAM	10/20/25 11:03		RM IZ	OK
13	Q3363-02	PR132-SO1-039085-2	SAM	10/20/25 11:24		RM IZ	OK
14	Q3363-03	PR132-SO3-028010-2	SAM	10/20/25 11:40		RM IZ	OK
15	Q3363-04	PR132-SO3-010013-2	SAM	10/20/25 12:00		RM IZ	OK
16	Q3363-05	COMP01-20251015	SAM	10/20/25 12:20		RM IZ	OK
17	Q3375-01	PR132-S02-074099-2	SAM	10/20/25 12:38		RM IZ	OK
18	Q3375-02	PR132-S04-000013-2	SAM	10/20/25 12:59		RM IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137582

Review By	rubina	Review On	10/23/2025 8:51:01 AM
Supervise By	Iwona	Supervise On	10/23/2025 1:38:02 PM
SubDirectory	LB137582	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP114036,WP114037,WP114038,WP114039,WP114040		
ICV Standard	WP114041		
CCV Standard	WP115276		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115277		
Chk Standard	WP115035,WP115168		

19	Q3375-03	PR132-S05-000057-2	SAM	10/20/25 13:18		RM IZ	OK
20	CCV2	CCV2	CCV	10/20/25 13:29		RM IZ	OK
21	CCB2	CCB2	CCB	10/20/25 13:42		RM IZ	OK
22	Q3375-04	PR132-S02-010074-2	SAM	10/20/25 14:01		RM IZ	OK
23	Q3375-05	PR132-DP02-202510	SAM	10/20/25 14:34		RM IZ	OK
24	Q3375-05MS	PR132-DP02-202510	MS	10/20/25 15:37	sample + 40ul of WP115276	RM IZ	OK
25	Q3375-05MSD	PR132-DP02-202510	MSD	10/20/25 16:04	sample + 40ul of WP115276	RM IZ	OK
26	CCV3	CCV3	CCV	10/20/25 16:37		RM IZ	OK
27	CCB3	CCB3	CCB	10/20/25 17:05		RM IZ	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137587

Review By	rubina	Review On	10/20/2025 4:36:14 PM
Supervise By	Iwona	Supervise On	10/20/2025 4:36:28 PM
SubDirectory	LB137587	Test	Hexavalent Chromium
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	WP115235,WP112831,WP112830,WP114310		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/20/25 15:00		rubina	OK
2	CAL2	CAL2	CAL	10/20/25 15:00		rubina	OK
3	CAL3	CAL3	CAL	10/20/25 15:01		rubina	OK
4	CAL4	CAL4	CAL	10/20/25 15:01		rubina	OK
5	CAL5	CAL5	CAL	10/20/25 15:02		rubina	OK
6	CAL6	CAL6	CAL	10/20/25 15:02		rubina	OK
7	CAL7	CAL7	CAL	10/20/25 15:03		rubina	OK
8	ICV	ICV	ICV	10/20/25 15:03		rubina	OK
9	ICB	ICB	ICB	10/20/25 15:04		rubina	OK
10	CCV1	CCV1	CCV	10/20/25 15:04		rubina	OK
11	CCB1	CCB1	CCB	10/20/25 15:05		rubina	OK
12	RL Check	RL Check	RL	10/20/25 15:05		rubina	OK
13	PB170150BL	PB170150BL	MB	10/20/25 15:06		rubina	OK
14	PB170150BS	PB170150BS	LCS	10/20/25 15:06		rubina	OK
15	Q3272-01	VNJ-235	SAM	10/20/25 15:07		rubina	OK
16	Q3363-01	PR132-SO1-085011-2	SAM	10/20/25 15:07		rubina	OK
17	Q3363-02	PR132-SO1-039085-2	SAM	10/20/25 15:08		rubina	OK
18	Q3363-03	PR132-SO3-028010-2	SAM	10/20/25 15:08		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137587

Review By	rubina	Review On	10/20/2025 4:36:14 PM
Supervise By	Iwona	Supervise On	10/20/2025 4:36:28 PM
SubDirectory	LB137587	Test	Hexavalent Chromium
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	WP115235,WP112831,WP112830,WP114310		

19	Q3363-04	PR132-SO3-010013-2	SAM	10/20/25 15:09		rubina	OK
20	Q3363-05	COMP01-20251015	SAM	10/20/25 15:09		rubina	OK
21	Q3366-01	TR-06-101625	SAM	10/20/25 15:10		rubina	OK
22	Q3366-03	TR-1-101625	SAM	10/20/25 15:10		rubina	OK
23	CCV2	CCV2	CCV	10/20/25 15:11		rubina	OK
24	CCB2	CCB2	CCB	10/20/25 15:11		rubina	OK
25	Q3369-01	MH-22	SAM	10/20/25 15:12		rubina	OK
26	Q3369-05	MH-21	SAM	10/20/25 15:12		rubina	OK
27	Q3374-01	TP-4-WC	SAM	10/20/25 15:13		rubina	OK
28	Q3374-05	TP-5-WC	SAM	10/20/25 15:14		rubina	OK
29	Q3381-01	VNJ-222	SAM	10/20/25 15:14		rubina	OK
30	Q3381-03	VNJ-245	SAM	10/20/25 15:15		rubina	OK
31	Q3381-05	RBR200059	SAM	10/20/25 15:15		rubina	OK
32	Q3381-07	VNJ-255	SAM	10/20/25 15:16		rubina	OK
33	Q3392-01	MH-20	SAM	10/20/25 15:16		rubina	OK
34	Q3392-01DUP	MH-20DUP	DUP	10/20/25 15:17		rubina	OK
35	CCV3	CCV3	CCV	10/20/25 15:17		rubina	OK
36	CCB3	CCB3	CCB	10/20/25 15:18		rubina	OK
37	Q3392-01MSPre	MH-20MS	MS	10/20/25 15:18		rubina	OK
38	Q3392-01MS2Ins	MH-20MS	MS	10/20/25 15:19		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137587

Review By	rubina	Review On	10/20/2025 4:36:14 PM
Supervise By	Iwona	Supervise On	10/20/2025 4:36:28 PM
SubDirectory	LB137587	Test	Hexavalent Chromium

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	WP115235,WP112831,WP112830,WP114310

39	Q3392-01MS3Post	MH-20MS	MS	10/20/25 15:19		rubina	OK
40	Q3392-05	MH-19	SAM	10/20/25 15:20		rubina	OK
41	CCV4	CCV4	CCV	10/20/25 15:20		rubina	OK
42	CCB4	CCB4	CCB	10/20/25 15:21		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q3363
Test : Hexavalent Chromium,Percent Solids,TOC

Prepbatch ID : PB170150,
Sequence ID/Qc Batch ID: LB137582,LB137587,

Standard ID :
WP112830,WP112831,WP112903,WP113780,WP113880,WP113881,WP114035,WP114036,WP114037,WP114038,WP114039,WP114040,WP114041,WP114310,WP114900,WP115035,WP115168,WP115235,WP115276,WP115277,

Chemical ID :
E3979,M6041,M6151,M6158,M6162,W2202,W2651,W2652,W2860,W2979,W3112,W3113,W3152,W3163,W3168,W3169,W3206,W3219,

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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>
1836	HNO3 Hex-Chrome, 5M	WP112830	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych
								04/25/2025

FROM 320.00000ml of M6158 + 680.00000ml of W3112 = Final Quantity: 1000.000 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>
126	5N sulfuric acid	WP112831	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych
								04/25/2025

FROM 140.00000ml of M6041 + 860.00000ml of W3112 = Final Quantity: 1.000 L

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>
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/01/2025
FROM 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L								

<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>
2051	TOC STOCK STD-SS, 4000PPM	WP113780	07/01/2025	01/01/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 07/02/2025
FROM 2.50000ml of W2860 + 4.25600gram of W3219 + 495.00000ml of W3112 = Final Quantity: 500.000 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>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP113880	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 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>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP113881	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 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>
2050	TOC STOCK STD, 4000PPM	WP114035	07/22/2025	01/22/2026	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Jignesh Parikh 07/22/2025
FROM 5.00000ml of W2860 + 8.51200gram of W3169 + 990.00000ml of W3112 = Final Quantity: 1000.000 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>
304	TOC CAL 0.00ppm	WP114036	07/22/2025	07/29/2025	Iwona Zarych	None	None	Jignesh Parikh 07/22/2025
FROM 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>
712	TOC SOIL cal 250ppm	WP114037	07/22/2025	07/29/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 07/22/2025
FROM 15.00000ml of W3112 + 1.00000ml of WP114035 = Final Quantity: 16.000 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>
710	TOC SOIL cal 500ppm	WP114038	07/22/2025	07/29/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 07/22/2025
FROM 14.00000ml of W3112 + 2.00000ml of WP114035 = Final Quantity: 16.000 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>
3544	TOC SOIL Cal- CCV 1000PPM	WP114039	07/22/2025	07/29/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 07/22/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP114035 = Final Quantity: 20.000 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>
713	TOC SOIL cal 2000ppm	WP114040	07/22/2025	07/29/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 07/22/2025

FROM 5.00000ml of W3112 + 5.00000ml of WP114035 = 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>
2819	TOC ICV-LCSS, 1000PPM	WP114041	07/22/2025	07/29/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 07/22/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP113780 = Final Quantity: 20.000 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>
3354	Hexchrome Cleaning Solution	WP114310	08/19/2025	11/27/2025	Rubina Mughal	None	None	Jignesh Parikh 08/19/2025

FROM 182.00000ml of M6151 + 727.00000ml of W3112 + 91.00000ml of M6162 = Final Quantity: 1000.000 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>
148	hexchrome digestion fluid	WP114900	09/25/2025	10/25/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 09/26/2025
FROM 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 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>
613	Phosphoric acid reagent	WP115035	10/02/2025	01/31/2026	Iwona Zarych	None	None	Jignesh Parikh 10/03/2025
FROM 150.00000ml of W3112 + 50.00000ml of W2860 = Final Quantity: 200.000 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>
2435	1:1 PHOSPHORIC ACID FOR TOC SOILS	WP115168	10/10/2025	01/31/2026	Iwona Zarych	None	None	Sarabjit Jaswal
								10/25/2025

FROM 50.00000ml of W2860 + 50.00000ml 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>
114	hexavalent chromium color reagent	WP115235	10/16/2025	10/23/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								10/16/2025

FROM 0.25000gram of W2979 + 50.00000ml of E3979 = Final Quantity: 50.000 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>
3544	TOC SOIL Cal- CCV 1000PPM	WP115276	10/20/2025	10/27/2025	Iwona Zarych	None	Glass Pipette-A	Sarabjit Jaswal 10/25/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP114035 = Final Quantity: 20.000 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>
2819	TOC ICV-LCSS, 1000PPM	WP115277	10/20/2025	10/27/2025	Iwona Zarych	None	Glass Pipette-A	Sarabjit Jaswal 10/25/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP113780 = Final Quantity: 20.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24L1062001	10/04/2027	10/15/2025 / RITESHKUMAR	09/29/2025 / Riteshkumar	E3979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	10/30/2025	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

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.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / lwona	11/25/2024 / lwona	W3152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / lwona	12/10/2024 / lwona	W3163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

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.	J3246-1 / POTAS PHOSPHATE, MONO, CRY, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206

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

Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)



Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H_3PO_4) (by acidimetry)	85.0 – 87.0 %	85.8
Calcium (Ca)	≤ 0.002 %	< 0.001
Color (APHA)	≤ 10	5
Insoluble Matter	≤ 0.001 %	< 0.001
ACS – Magnesium (Mg)	≤ 0.002 %	< 0.002
Sulfate (SO_4)	≤ 12 ppm	< 4
Volatile Acids (as CH_3COOH)	≤ 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	≤ 3 ppm	< 1
Nitrate (NO_3)	≤ 5 ppm	< 2
Trace Impurities – Antimony (Sb)	≤ 20.000 ppm	0.007
Trace Impurities – Arsenic (As)	≤ 0.500 ppm	< 0.001
Trace Impurities – Iron (Fe)	≤ 10.000 ppm	< 1.000
Heavy Metals (as Pb)	≤ 8 ppm	< 3
Trace Impurities – Manganese (Mn)	≤ 0.500 ppm	0.005
Trace Impurities – Potassium (K)	≤ 40.000 ppm	< 0.001
Trace Impurities – Sodium (Na)	≤ 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use
Exceeds A.C.S. Specifications
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24L1062001
Manufactured Date: 2024-10-04
Expiration Date: 2027-10-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3979

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



M 6041-4b
MS

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantorsm**

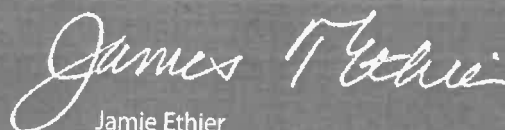


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis

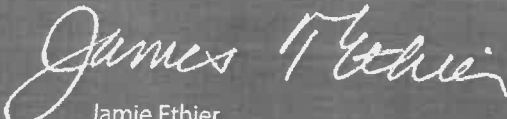


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS



R- 0210212025

m - 6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantorsTM**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
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For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Division

Nitric Acid 69%
CMOS



m-6162

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

R. Date :- 04/27/2025

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>



Test	Specification	Result

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Joak

Jamie Croak
Director Quality Operations, Bioscience Production

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

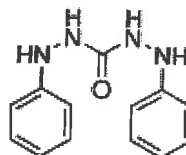
C₁₃H₁₄N₄O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022



Certificate of Analysis

Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed. 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.

Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Lot Number	002126-2019-201
Product	Magnesium chloride hexahydrate

Magnesium chloride•6H₂O

CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O

Molecular Weight	203.3
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Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO ₃) : < 0.001% Phosphate (PO ₄) : < 5 ppm Sulfate (SO ₄) : < 0.002%
Cation	Ammonium (NH ₄) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002126-2019-201

Remarks

See material safety data sheet for additional information
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager

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W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis

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Material BDH9284-2.5KG
Material Description BDH SODIUM CARB ANHYD ACS 2.5KG
Grade U S P REAGENT (ACS GRADE)

Batch 24E3156178
Reassay Date 09/30/2027
CAS Number 497-19-8
Molecular Formula Na2CO3
Molecular Mass 105.99

Date of Manufacture 09/01/2023
Storage Room Temperature
Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

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.



Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

Internal ID #: 793

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.



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 %

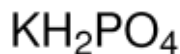
Internal ID #: 322

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

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%



Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 Years		



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/17/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/16/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/17/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137562

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q3307-02	S-39(9.5-10.0)	1	1.14	10.71	11.85	10.87	90.8	
Q3307-03	S-39(14.5-15.0)	2	1.15	10.38	11.53	10.4	89.1	
Q3307-04	S-37(7.0-7.5)	3	1.13	10.10	11.23	10.06	88.4	
Q3307-05	S-37(14.5-15.0)	4	1.16	10.22	11.38	10.35	89.9	
Q3307-06	S-38(0-0.5)	5	1.19	10.65	11.84	10.77	90.0	
Q3307-07	S-38(6.0-6.5)	6	1.18	10.35	11.53	10.42	89.3	
Q3307-08	S-38(14.5-15.0)	7	1.17	10.18	11.35	10.39	90.6	
Q3307-09	S-36(0-0.5)	8	1.13	10.34	11.47	10.73	92.8	
Q3307-10	S-36(7.0-7.5)	9	1.18	10.53	11.71	10.63	89.7	
Q3307-11	S-36(14.5-15.0)	10	1.13	11.04	12.17	10.97	89.1	
Q3307-17	S-35(7.0-7.5)	11	1.15	10.83	11.98	10.77	88.8	
Q3307-18	S-35(14.5-15.0)	12	1.12	10.40	11.52	10.33	88.6	
Q3363-01	PR132-SOL-085011-20251015	13	1.13	10.82	11.95	6.55	50.1	
Q3363-02	PR132-SOL-039085-20251015	14	1.15	10.53	11.68	7.11	56.6	
Q3363-03	PR132-SOL-028010-20251015	15	1.15	10.29	11.44	6.79	54.8	
Q3363-04	PR132-SOL-010013-20251015	16	1.18	10.94	12.12	6.81	51.5	
Q3363-05	COMP01-20251015	17	1.19	10.32	11.51	6.91	55.4	
Q3366-01	TR-06-101625	18	1.14	10.33	11.47	10.95	95.0	
Q3366-02	TR-06-101625-E2	19	1.15	10.32	11.47	11.00	95.4	
Q3366-03	TR-1-101625	20	1.19	10.30	11.49	10.7	92.3	
Q3366-04	TR-01-101625-E2	21	1.19	10.43	11.62	11.12	95.2	
Q3367-01	BU-03-101625	22	1.11	10.51	11.62	10.81	92.3	
Q3369-01	MH-22	23	1.16	10.61	11.77	10.62	89.2	
Q3369-02	MH-22-EPH	24	1.15	10.38	11.53	10.4	89.1	
Q3369-03	MH-22-VOC	25	1.16	10.36	11.52	10.4	89.2	
Q3369-05	MH-21	26	1.19	10.76	11.95	10.81	89.4	
Q3369-06	MH-21-EPH	27	1.12	11.10	12.22	11.12	90.1	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/17/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
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Weight Check 1.0g: 1.00
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OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/17/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137562

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q3369-07	MH-21-VOC	28	1.16	10.45	11.61	10.66	90.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 127562

WorkList Name : %1-101625

WorkList ID : 192491

Department : Wet-Chemistry

Date : 10-16-2025 07:46:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3307-02	S-39(9.5-10.0)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-03	S-39(14.5-15.0)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-04	S-37(7.0-7.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-05	S-37(14.5-15.0)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-06	S-38(0-0.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-07	S-38(6.0-6.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-08	S-38(14.5-15.0)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-09	S-36(0-0.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-10	S-36(7.0-7.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-11	S-36(14.5-15.0)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-17	S-35(7.0-7.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3307-18	S-35(14.5-15.0)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/07/2025	Chemtech -SO
Q3363-01	PR132-SOL-085011-20251015	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/15/2025	Chemtech -SO
Q3363-02	PR132-SOL-039085-20251015	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/15/2025	Chemtech -SO
Q3363-03	PR132-SOL-028010-20251015	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/15/2025	Chemtech -SO
Q3363-04	PR132-SOL-010013-20251015	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/15/2025	Chemtech -SO
Q3363-05	COMP01-20251015	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/15/2025	Chemtech -SO
Q3366-01	TR-06-101625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/16/2025	Chemtech -SO
Q3366-02	TR-06-101625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/16/2025	Chemtech -SO
Q3366-03	TR-1-101625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/16/2025	Chemtech -SO
Q3366-04	TR-01-101625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/16/2025	Chemtech -SO

Date/Time 10-16-25 13:20

Raw Sample Received by: Raw Sample Relinquished by: 

Date/Time 10-16-25

Raw Sample Received by: Raw Sample Relinquished by: 

17:30



WORKLIST(Hardcopy Internal Chain)

137562

WorkList Name : %1-101625 WorkList ID : 192491 Department : Wet-Chemistry Date : 10-16-2025 07:46:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3367-01	BU-03-101625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	10/16/2025	Chemtech -SO
Q3369-01	MH-22	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/16/2025	Chemtech -SO
Q3369-02	MH-22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/16/2025	Chemtech -SO
Q3369-03	MH-22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/16/2025	Chemtech -SO
Q3369-05	MH-21	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/16/2025	Chemtech -SO
Q3369-06	MH-21-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/16/2025	Chemtech -SO
Q3369-07	MH-21-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/16/2025	Chemtech -SO

Date/Time 10-16-25 15:20 Date/Time 10-16-25 17:30
Raw Sample Received by: [Signature] Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature] Raw Sample Relinquished by: [Signature]



SHIPPING DOCUMENTS

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TECHNICAL GROUP

28.5... street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3363
QUOTE NO. Q3363
COC Number 2045136 Q3364

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **AECOM**

ADDRESS: **605 Third Avenue**

CITY **New York** STATE: **NY** ZIP: **10158**

ATTENTION: **Robert Forschner**

PHONE: **212-377-8721** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Port Richmond 132**

PROJECT NO.: **60693795** LOCATION: **Staten Island**

PROJECT MANAGER: **Rob Forschner**

e-mail: **Robert.Forschner@aecocom.com**

PHONE: **212-377-8721** FAX:

CLIENT BILLING INFORMATION

BILL TO: **AECOM**

PO#:

ADDRESS: **605 Third Avenue**

CITY **New York** STATE: **NY** ZIP: **10158**

ATTENTION: **Rob Forschner** PHONE: **212-377-8721**

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*

DATA DELIVERABLE INFORMATION

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

☐ EDD FORMAT _____

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

PRESERVATIVES

COMMENTS

Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	ANALYSIS									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	PA132-S01-085611-20251015	Soil		X	10/15	1157	11	X	X	X	X	X	X	X	X	X	
2.	PA132-S01-039085-20251015	Soil		X	10/15	1210	11	X	X	X	X	X	X	X	X	X	
3.	PA132-S03-028010-20251015	Soil		X	10/15	1315	11	X	X	X	X	X	X	X	X	X	
4.	PA132-S03-010013-20251015	Soil		X	10/15	1330	11	X	X	X	X	X	X	X	X	X	
5.	COMP01-20251015	Soil	X		10/15	1353	11	X	X	X	X	X	X	X	X	X	
6.	TB-01	Water			10/15		1	X	X	X	X	X	X	X	X	X	Temp Blank
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: _____ DATE/TIME: **1700**

RELINQUISHED BY SAMPLER: **Jim Alderson** DATE/TIME: **101515**

RELINQUISHED BY SAMPLER: _____ DATE/TIME: **1750**

RELINQUISHED BY SAMPLER: _____ DATE/TIME: **10-15-25**

Comments: _____

3.1 °C

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3363	AECO02	Order Date : 10/16/2025 10:56:42 AM	Project Mgr :
Client Name : AECOM		Project Name : AB1-CTY 3.2.Z-PR-DOCK	Report Type : NYS ASP <i>Ed</i>
Client Contact : Rob Forstner		Receive DateTime : 10/16/2025 5:50:00 PM	EDD Type : EQUIS
Invoice Name : AECOM		Purchase Order : 10/15/2025	Hard Copy Date :
Invoice Contact : Rob Forstner			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3363-01	PR132-SO 1 ₄ -085011-20251015	Solid	10/15/2025	11:57					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3363-02	PR132-SO 1 ₄ -039085-20251015	Solid	10/15/2025	12:10					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3363-03	PR132-SO 1 ₃ -028010-20251015	Solid	10/15/2025	13:15					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3363-04	PR132-SO 1 ₃ -010013-20251015	Solid	10/15/2025	13:30					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3363-05	COMP01-20251015	Solid	10/15/2025	13:53					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By : 

Date / Time : 10/16/25 140

Received By : 

Date / Time : 10/16/25

Storage Area : VOA Refridgerator Room

12:18