

## DATA PACKAGE GENERAL CHEMISTRY

**PROJECT NAME: RFP 905** 

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID: Q3447

**ATTENTION: Smita Sumbaly** 





Q3447-GENCHEM 1 of 73

11) Analytical Runlogs

12) Standard Prep Logs

14) Shipping Document

14.1) Chain Of Custody

14.2) Lab Certificate

14.3) Internal COC

13) Percent Solid

Table Of Contents for Q3447	
1) GENERAL CHEMISTRY DATA	2
2) Signature Page	3
3) Case Narrative	4
4) Qualifier Page	6
5) Conformance/Non Conformance	7
6) QA Checklist	8
7) Chronicle	9
8) Sample Data	10
8.1) P001-TW1-251023-01	11
8.2) P001-TW2-251023-01	12
8.3) P001-TW3-251023-01	13
8.4) P001-TW4-251023-01	14
9) QC Data Summary For Genchem	15
9.1) Initial and Continuing Calibration Verification	16
9.2) Initial and Continuing Calibration Blank Summary	17
9.3) Preparation Blank Summary	18
9.4) Matrix Spike Summary	19
9.5) Duplicate Sample Summary	21
9.6) Laboratory Control Sample Summary	23
10) GENCHEM RAW DATA	24
10.1) GENCHEM RAW DATA - ANALYTICAL	25
10.1.1) LB137637	25
10.2) GENCHEM RAW DATA - PREP	28
10.2.1) PB170238	28

31

33

62

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67

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73

Q3447-GENCHEM 2 of 73





#### **Cover Page**

Order ID: Q3447

**Project ID:** RFP 905

**Client:** Weston Solutions, Inc.

#### **Lab Sample Number**

#### **Client Sample Number**

Q3447-01	P001-TW1-251023-01
Q3447-02	P001-TW1-251023-01
Q3447-03	P001-TW2-251023-01
Q3447-04	P001-TW2-251023-01
Q3447-05	P001-TW3-251023-01
Q3447-06	P001-TW3-251023-01
Q3447-07	P001-TW4-251023-01
Q3447-08	P001-TW4-251023-01

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: 11/4/2025

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

Q3447-GENCHEM 3 of 73

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

#### CASE NARRATIVE

Weston Solutions, Inc. Project Name: RFP 905

Project # N/A Order ID # Q3447 Test Name: Cyanide

#### A. Number of Samples and Date of Receipt:

4 Solid samples were received on 10/23/2025.

#### **B. Parameters:**

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

#### C. Analytical Techniques:

The analysis of Cyanide was based on method 9012B.

#### 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:

Calculation for CN Soil Sample:

Concentration or Result (
$$\mu$$
g/L) =  $\frac{C \times Vf \times DF}{W \times S}$ 

Where,

C = Instrument response in  $\mu$ g/L CN from the calibration curve.

Vf = Final prepared (absorbing solution) volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Q3447-GENCHEM 4 of 73

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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_		

Q3447-GENCHEM 5 of 73



#### 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	ndicates 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	ndicates Duplicate injection precision not met.									
N	ndicates the spiked sample recovery is not within control limits.									
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).									
*	ndicates 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									

Q Indicates the LCS did not meet the control limits requirements

instrument for that specific analysis.

Indicates the analyte's concentration exceeds the calibrated range of the

H Sample Analysis Out Of Hold Time

OR

Q3447-GENCHEM 6 of 73

### ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

#### GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDE	ER ID: Q3447 MA'	ΓRIX: Solid			
METH	HOD: 9012B				
1.	Blank Contamination - If yes, list compounds and concentrations in e	ach blank:	NA	NO ✓	YES
2.	Matrix Spike Duplicate Recoveries Met Criteria				✓
	If not met, list those compounds and their recoveries which fall outsic range.	le the acceptable			
	The Blank Spike met requirements for all compounds.				
3.	Sample Duplicate Analysis Met QC Criteria				$\checkmark$
	If not met, list those compounds and their recoveries which fall outsic range.	e the acceptable			
4.	Digestion Holding Time Met				✓
	If not met, list number of days exceeded for each sample:				
ADDIT	TIONAL COMMENTS:				
QA RE	VIEW	Date			

Q3447-GENCHEM 7 of 73





#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

**Project #: Q3447** 

	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)	<u> </u>
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	<u>'</u> <u>'</u> <u>'</u> <u>'</u> <u>'</u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u>√</u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<del>'</del> <del>'</del> <del>'</del> <u>'</u> <u>'</u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI Date: 11/04/2025

Q3447-GENCHEM 8 of 73



#### LAB CHRONICLE

OrderID: Q3447

Client: Weston Solutions, Inc.

Contact: Smita Sumbaly

**OrderDate:** 10/23/2025 1:50:00 PM

Project: RFP 905

Location: D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3447-01	P001-TW1-251023-01	SOIL			10/23/25 10:00			10/23/25
			Cyanide	9012B		10/24/25	10/24/25 12:32	
Q3447-03	P001-TW2-251023-01	SOIL			10/23/25 10:30			10/23/25
			Cyanide	9012B		10/24/25	10/24/25 12:32	
Q3447-05	P001-TW3-251023-01	SOIL			10/23/25 11:00			10/23/25
			Cyanide	9012B		10/24/25	10/24/25 12:32	
Q3447-07	P001-TW4-251023-01	SOIL			10/23/25 11:30			10/23/25
			Cyanide	9012B		10/24/25	10/24/25 12:32	

Q3447-GENCHEM 9 of 73

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## SAMPLE DATA



Fax: 908 789 8922

#### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 905

Client Sample ID: P001-TW1-251023-01

Lab Sample ID: Q3447-01 Date Collected: 10/23/25 10:00

100

Date Received: 10/23/25

SDG No.: Q3447 Matrix: SOIL

% Solid:

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.040	U	1 0.040	0.24	mg/Kg	10/24/25 10:10	10/24/25 12:32	9012B

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

11 of 73 Q3447-GENCHEM



Fax: 908 789 8922

#### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 905

Client Sample ID: P001-TW2-251023-01

Lab Sample ID: Q3447-03

Date Collected: 10/23/25 10:30

Date Received: 10/23/25 SDG No.: Q3447

SDG No.: Q3447 Matrix: SOIL

% Solid: 91.7

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.39	1 0.044	0.26	mg/Kg	10/24/25 10:10	10/24/25 12:32	9012B

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

Q3447-GENCHEM 12 of 73



Fax: 908 789 8922

#### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 905

Client Sample ID: P001-TW3-251023-01

Lab Sample ID: Q3447-05

Date Collected: 10/23/25 11:00

Date Received: 10/23/25 SDG No.: Q3447

Matrix: SOIL

% Solid:

te	Pren Date	Date Ana	Ana Met	

97.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cvanide	0.051	J	1	0.042	0.25	mg/Kg	10/24/25 10:10	10/24/25 12:32	9012B

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

Q3447-GENCHEM 13 of 73



Fax: 908 789 8922

#### **Report of Analysis**

Client: Weston Solutions, Inc.

Project: RFP 905

Client Sample ID: P001-TW4-251023-01

Lab Sample ID: Q3447-07

Date Collected: 10/23/25 11:30

100

Date Received: 10/23/25

SDG No.: Q3447 Matrix: SOIL

% Solid:

Parameter	Conc.	Qua.	DF M	IDL LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.043	J	1 0.	041 0.24	mg/Kg	10/24/25 10:10	10/24/25 12:32	9012B

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

Q3447-GENCHEM 14 of 73



# QC RESULT SUMMARY



Fax: 908 789 8922

#### **Initial and Continuing Calibration Verification**

Client: Weston Solutions, Inc. SDG No.: Q3447

Project: RFP 905 RunNo.: LB137637

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.095	0.099	96	90-110	10/24/2025
Sample ID: Cyanide	CCV1	mg/L	0.25	0.25	100	90-110	10/24/2025
Sample ID: Cyanide	CCV2	mg/L	0.23	0.25	92	90-110	10/24/2025
Sample ID: Cyanide	CCV3	mg/L	0.24	0.25	96	90-110	10/24/2025

Q3447-GENCHEM 16 of 73



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$ 

Fax: 908 789 8922

#### **Initial and Continuing Calibration Blank Summary**

Client: Weston Solutions, Inc. SDG No.: Q3447

Project: RFP 905 RunNo.: LB137637

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	ICB1	mg/L	0.00096	0.0025	J	0.00096	0.005	10/24/2025
Sample ID: Cyanide	CCB1	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/24/2025
Sample ID: Cyanide	CCB2	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/24/2025
Sample ID: Cyanide	CCB3	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/24/2025

Q3447-GENCHEM 17 of 73



#### **Preparation Blank Summary**

Client: Weston Solutions, Inc. SDG No.: Q3447

**Project:** RFP 905

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB170238BL mg/Kg	< 0.1250	0.1250	U	0.042	0.25	10/24/2025

Q3447-GENCHEM 18 of 73

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Fax: 908 789 8922

#### **Matrix Spike Summary**

Client: Weston Solutions, Inc. SDG No.: Q3447

Project: RFP 905 Sample ID: Q3449-01

Client ID: CF-620-COMP-41MS Percent Solids for Spike Sample: 89.8

A a landa	¥1:4-	Acceptance Limit %R	Spiked Result	Conc. Oualifier	Sample Result	Conc. Oualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date	
Analyte	Units	Limit /0K	Result	Quanner	Kesuit	Quanner	Auueu	Factor	Nec	Quai		_
Cvanide	mg/Kg	75-125	2.20		0.12	J	2.2	1	95		10/24/2025	

Q3447-GENCHEM 19 of 73

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Fax: 908 789 8922

#### **Matrix Spike Summary**

Client: Weston Solutions, Inc. SDG No.: Q3447

Project: RFP 905 Sample ID: Q3449-01

Client ID: CF-620-COMP-41MSD Percent Solids for Spike Sample: 89.8

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	% D	01	Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Cvanide	mg/Kg	75-125	2.30		0.12	J	2.2	1	99		10/24/2025	

Q3447-GENCHEM **20 of 73** 

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#### **Duplicate Sample Summary**

Client: Weston Solutions, Inc. SDG No.: Q3447

**Project:** RFP 905 **Sample ID:** Q3449-01

Client ID: CF-620-COMP-41DUP Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Cvanide	mg/Kg	+/-20	0.12	J	0.12	J	1	0		10/24/2025	

Q3447-GENCHEM **21 of 73** 



#### **Duplicate Sample Summary**

Client: Weston Solutions, Inc. SDG No.: Q3447

**Project:** RFP 905 **Sample ID:** Q3449-01

Client ID: CF-620-COMP-41MSD Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Cyanide	mg/Kg	+/-20	2.20		2.30		1	4		10/24/2025	

Q3447-GENCHEM **22 of 73** 



#### **Laboratory Control Sample Summary**

Weston Solutions, Inc. SDG No.: Q3447 **Client:** 

RFP 905 LB137637 Run No.: **Project:** 

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170238BS								
Cvanide		mg/Kg	5	4 70		94	1	85-115	10/24/2025

Q3447-GENCHEM 23 of 73



## RAW DATA

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Q3447-GENCHEM **24 of 73** 

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Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RY Instrument ID : Konelab

10/24/2025 13:38

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1 ICB1 CCV1 CCB1 PB170238BL PB170238BS LOWPB170238 HIGHPB170238 Q3447-01 Q3447-03 Q3447-05 Q3447-07 Q3449-01 Q3449-01DUP CCV2 CCB2 Q3449-01MS Q3449-01MSD CCV3 CCB3	95.364 0.960 246.294 0.922 0.784 94.142 9.502 491.342 -1.047 7.357 1.021 0.876 2.158 2.252 231.983 0.624 40.591 41.239 244.233 0.756	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.083 0.001 0.213 0.001 0.001 0.082 0.008 0.425 -0.001 0.006 0.001 0.002 0.002 0.002 0.201 0.001 0.0035 0.036 0.211 0.001	95% (90-110) 90% (90-110) 10/24/2025 1814

N	20
Mean	75.568
SD	130.3436
CV%	172.49

Q3447-GENCHEM

10

Aquakem v. 7.2AQ1

Results from time period:

Fri Oct 24 12:24:54 2025

Fri Oct 24 13:36:39 2025

	0.00 2020						
Sample Id	Sam/Ctr	/c/ Test shor	t r Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	Α	Total CN	Р	0.421	µg/l	10/24/2025 10:32:07	
5.0PPBCN	Α	Total CN	Р	5.3168	µg/l	10/24/2025 10:32:08	
10PPBCN	Α	Total CN	Р	10.3413	µg/l	10/24/2025 10:32:09	
50PPBCN	Α	Total CN	Р	49.7338	µg/l	10/24/2025 10:32:10	
100PPBCN	Α	Total CN	Р	98.3173	µg/l	10/24/2025 10:32:11	
250PPBCN	Α	Total CN	Р	251.0332	µg/l	10/24/2025 10:32:12	
500PPBCN	Α	Total CN	Р	499.8365	µg/l	10/24/2025 10:32:13	
ICV1	S	Total CN	Р	95.3636	µg/l	10/24/2025 12:24:55	
ICB1	S	Total CN	Р	0.9597	µg/l	10/24/2025 12:24:56	
CCV1	S	Total CN	Р	246.2935	µg/l	10/24/2025 12:24:59	
CCB1	S	Total CN	P	0.9223	µg/l	10/24/2025 12:25:01	
PB170238BL	S	Total CN	P	0.7836	µg/l	10/24/2025 12:25:03	
PB170238BS	S	Total CN	Р	94.1424	µg/l	10/24/2025 12:32:28	
LOWPB170238	S	Total CN	P	9.5022	µg/l	10/24/2025 12:32:30	
HIGHPB170238	S	Total CN	Р	491.3419	µg/l	10/24/2025 12:32:34	
Q3447-01	S	Total CN	Р	-1.0465	µg/l	10/24/2025 12:32:35	
Q3447-03	S	Total CN	Р	7.3568	µg/l	10/24/2025 12:32:36	
Q3447-05	S	Total CN	Р	1.021	µg/l	10/24/2025 12:32:37	
Q3447-07	S	Total CN	Р	ا 0.8755	µg/l	10/24/2025 12:32:38	
Q3449-01	S	Total CN	Р	2.1581	ug/l	10/24/2025 12:40:04	
Q3449-01DUP	S	Total CN	Р	2.2516 μ	ug/l	10/24/2025 12:40:07	
CCV2	S	Total CN	Р	231.983 µ	ıg/l	10/24/2025 12:40:10	
CCB2	S	Total CN	Р	0.6245 բ	ıg/l	10/24/2025 12:47:08	
Q3449-01MS	S	Total CN	Р	40.5908 µ	ıg/l	10/24/2025 12:47:12	
Q3449-01MSD	S	Total CN	Р	41.2394 µ	ıg/l	10/24/2025 12:47:13	
CCV3	S	Total CN	P	244.2333 μ	ıg/l	10/24/2025 12:47:14	
CCB3	S	Total CN	Р	0.7557 μ	ıg/l	10/24/2025 12:47:17	

Q3447-GENCHEM **26 of 73** 

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by :  $\underline{RM}$  Instrument ID : Konelab

10/24/2025 10:33

Test Total CN

Accepted

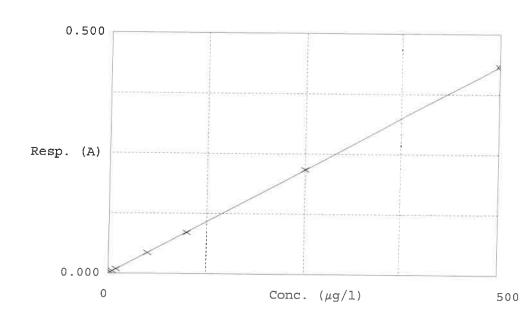
10/24/2025 10:32

Factor Bias

1156

Coeff. of det. 0.999979

Errors



	Calibrator	Response	Calc. con.	Conc.	lý Errors
1 2 3 4 5 6 7	0.0PPBCN 5.0PPBCN 10PPBCN 50PPBCN 100PPBCN 250PPBCN 500PPBCN	0.000 0.005 0.009 0.043 0.085 0.217 0.433	0.4210 5.3168 10.3413 49.7338 98.3173 251.0332 499.8365	0.0000 5.0000 10.0000 50.0000 100.0000 250.0000 500.0000	6.3 3.4 -0.5 -1.7 0.4 0.0

10/24/2025 RM

Q3447-GENCHEM

27 of 73



PB170238



SOP ID:	M9012B-Total, Amenab	ole and Reactive Cyanide	e-21					
SDG No :	N/A			Start Digest Date:	10/24/2025	Time: 10:10	Temp :	123 °
Matrix :	SOIL			End Digest Date:	10/24/2025	Time: 11:40	Temp :	126 °C
Pippete ID :	wc						_	
Balance ID :	WC SC-7							
Hood ID :	HOOD#1	Digestion tube ID :	M5595		Block Thern	nometer ID:W	C CYANIDE	

 Block ID :
 MC-1,MC-2
 Filter paper ID :
 N/A
 Prep Technician Signature:

 Weigh By :
 JP
 pH Meter ID :
 N/A
 Supervisor Signature:
 12

Standared Name	MLS USED	STD REF. # FROM LOG	
LCSS	1.0ML	WP113838	_
MS/MSD SPIKE SOL.	0.40ML	WP113837	
PBS003	50.0ML	W3112	
N/A	N/A	N/A	

N/A

N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
50% v/v H2SO4	5.0ML	WP112826
51% w/v MgCL2	2.0ML	WP112827
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
50	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	ccv	N/A	N/A
ССВ	ССВ	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP113837
LOWSTD	LOWSTD	0.1ML	WP113837

#### **Extraction Conformance/Non-Conformance Comments:**

N/A

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
(10/24/2025 11.5	o of IWC	PH cws
	Preparation Group	Analysis Group



Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep
PB170238BL	PBS238	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB170238BS	LCS238	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3447-01	P001-TW1-251023-01	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3447-03	P001-TW2-251023-01	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3447-05	P001-TW3-251023-01	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3447-07	P001-TW4-251023-01	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3449-01	CF-620-COMP-41	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3449-01DUP	CF-620-COMP-41DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
)3449-01MS	CF-620-COMP-41MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
3449-01MSD	CF-620-COMP-41MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

# WORKLIST(Hardcopy Internal Chain)

Q3447				WORKLIST(Har	WORKLIST(Hardcopy Internal Chain)				
	WorkList Name :	CNQ3447	WorkList	WorkList ID: 192652	Department: Distillation	ation	J	Date: 10-23-2025 16:11:34	25 16:11:34
HEM	Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
	00447.04								
	43447-01	P001-1W1-251023-01	Solid	Cyanide	Cool 4 dea C	BOVENS	2		
	Q3447-03	D001_T14/2 251022 04			0	1011 02	140	10/23/2025 9012B	9012B
		1 00 1-1 WZ-Z3 10Z3-U1	Solid	Cyanide	Cool 4 deg C	ROYF02	D41	40/22/202E	200
	Q3447-05	P001-TW3-251023-01	Solid	Cvanida				10/23/2023 9012B	90128
	2017100			Sydina	Cool 4 deg C	ROYF02	D41	10/23/2025 9012B	9012B
	Q3447-07	P001-TW4-251023-01	Solid	Cyanide	Cool 4 dea C	901/200			
	03449-01	77 47700 000 10			0 800	RUTFUZ	D41	10/23/2025 9012B	9012B
		CT-620-COMP-41	Solid	Cyanide	Cool 4 deg C	PSEG03	D21	10/23/2025 004.25	000
								10/20/2023	20175

Date/Time 10/24/202 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Date/Time (0/24/2025

Raw Sample Relinquished by: Raw Sample Received by:



**Instrument ID:** 

KONELAB

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB137637

Review By	rub	oina	Review On	10/27/2025 11:35:59 AM
Supervise By	lwc	ona	Supervise On	10/27/2025 11:49:18 AM
SubDirectory	LB	137637	Test	Cyanide
STD. NAME		STD REF.#		
ICAL Standard		WP115305,WP115306,	WP115307,WP115308,WP115309,WP1	15310,WP115311
ICV Standard		W3012		
CCV Standard		WP115306		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard	WP113838			
Chk Standard		WP115157,WP114324,	WP115313	

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/24/25 10:32		rubina	ОК
2	5.0PPBCN	5.0PPBCN	CAL2	10/24/25 10:32		rubina	ОК
3	10PPBCN	10PPBCN	CAL3	10/24/25 10:32		rubina	ОК
4	50PPBCN	50PPBCN	CAL4	10/24/25 10:32		rubina	ОК
5	100PPBCN	100PPBCN	CAL5	10/24/25 10:32		rubina	ОК
6	250PPBCN	250PPBCN	CAL6	10/24/25 10:32		rubina	ок
7	500PPBCN	500PPBCN	CAL7	10/24/25 10:32		rubina	ок
8	ICV1	ICV1	ICV	10/24/25 12:24		rubina	ок
9	ICB1	ICB1	ICB	10/24/25 12:24		rubina	ок
10	CCV1	CCV1	CCV	10/24/25 12:24		rubina	ок
11	CCB1	CCB1	ССВ	10/24/25 12:25		rubina	ок
12	PB170238BL	PB170238BL	MB	10/24/25 12:25		rubina	ок
13	PB170238BS	PB170238BS	LCS	10/24/25 12:32		rubina	ОК
14	LOWPB170238	LOWPB170238	SAM	10/24/25 12:32		rubina	ок
15	HIGHPB170238	HIGHPB170238	SAM	10/24/25 12:32		rubina	ок
16	Q3447-01	P001-TW1-251023-01	SAM	10/24/25 12:32		rubina	ок
17	Q3447-03	P001-TW2-251023-01	SAM	10/24/25 12:32		rubina	ок
18	Q3447-05	P001-TW3-251023-01	SAM	10/24/25 12:32		rubina	ок

Q3447-GENCHEM **31 of 73** 

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IP



**Instrument ID:** 

KONELAB

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB137637

Review By	rub	ina	Review On	10/27/2025 11:35:59 AM
Supervise By	lwc	ona	Supervise On	10/27/2025 11:49:18 AM
SubDirectory	ry LB137637		Test	Cyanide
STD. NAME STD REF.#		STD REF.#		
ICAL Standard WP115305,WP115306		WP115305,WP115306,	WP115307,WP115308,WP115309,WP1	15310,WP115311
ICV Standard		W3012		
CCV Standard		WP115306		
ICSA Standard		N/A		
CRI Standard	dard N/A			
LCS Standard	S Standard WP113838			
Chk Standard		WP115157,WP114324,	WP115313	

19	Q3447-07	P001-TW4-251023-01	SAM	10/24/25 12:32	rubina	ОК
20	Q3449-01	CF-620-COMP-41	SAM	10/24/25 12:40	rubina	OK
21	Q3449-01DUP	CF-620-COMP-41DUI	DUP	10/24/25 12:40	rubina	OK
22	CCV2	CCV2	CCV	10/24/25 12:40	rubina	OK
23	CCB2	CCB2	ССВ	10/24/25 12:47	rubina	ОК
24	Q3449-01MS	CF-620-COMP-41MS	MS	10/24/25 12:47	rubina	OK
25	Q3449-01MSD	CF-620-COMP-41MS	MSD	10/24/25 12:47	rubina	OK
26	CCV3	CCV3	CCV	10/24/25 12:47	rubina	OK
27	CCB3	ССВ3	ССВ	10/24/25 12:47	rubina	ОК

Q3447-GENCHEM **32 of 73** 

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#### **Prep Standard - Chemical Standard Summary**

Order ID: Q3447

Test: Cyanide, Percent Solids

Prepbatch ID: PB170238,

Sequence ID/Qc Batch ID: LB137637,

#### Standard ID:

WP112826,WP112827,WP113836,WP113837,WP113838,WP114324,WP115157,WP115304,WP115305,WP115306,WP115307,WP115308,WP115309,WP115310,WP115311,WP115313,

#### Chemical ID:

Q3447-GENCHEM 33 of 73

1

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#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME Sulfuric Acid, 50% (v/v)	<b>NO.</b> WP112826	Prep Date 04/25/2025	Expiration Date 10/25/2025	Prepared By Rubina Mughal	ScaleID None	<u>PipettelD</u> None	Supervised By Iwona Zarych
	,							04/25/2025
FROM	1000.00000ml of M6041 + 1000.0000	00ml of W31	12 = Final Q	uantity: 2000.0	00 ml			

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3214		WP112827	04/25/2025	10/25/2025	Rubina Mughal		None	
	2.5M(51%W/V)					CALE_8 (WC		04/25/2025

FROM 500.0000ml of W3112 + 510.00000gram of W3152 = Final Quantity: 1000.000 ml

Q3447-GENCHEM **34 of 73** 



#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych		
11	,	WP113836	07/08/2025	12/31/2025	Rubina Mughal	_		•		
	solution 0.25 N					CALE_8 (WC		07/08/2025		
EDOM.	50-7)									

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3850	Cyanide MS-MSD spiking solution, 5PPM	<u>WP113837</u>	07/08/2025	11/30/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3 (WC)	07/08/2025

FROM 1.00000ml of W3214 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml

Q3447-GENCHEM **35 of 73** 



#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych		
3371	Cyanide LCS Spike Solution, 5PPM	<u>WP113838</u>	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	07/08/2025		
FROM	(WC)									

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Jignesh Parikh
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	_		
						CALE_5 (WC	Pipette-A	08/19/2025

FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000

Q3447-GENCHEM **36 of 73** 



Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
539	CN BUFFER	WP115157	10/10/2025	12/03/2025	Rubina Mughal	WETCHEM S	None	Iwona Zaryon
						CALE_8 (WC		10/14/2025
FROM	138.00000gram of W2668 + 862.000	00ml of W3	112 = Final Q	uantity: 1000.0	000 ml	SC-7)		

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP115304</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	10/24/2025

FROM 0.25000ml of W3214 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml

Q3447-GENCHEM 37 of 73



Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
4	Calibation standard 500 ppb	<u>WP115305</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE 3	10/24/2025
FROM	45.00000ml of WP113836 + 5.00000	ml of WP11	5304 = Final	Quantity: 50 00	<u>l</u> 00 ml		(WC)	10/24/2020

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3761	Calibration-CCV CN Standard 250 ppb	WP115306	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	10/24/2025

**FROM** 2.50000ml of WP115304 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml

Q3447-GENCHEM 38 of 73



Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
6	Calibration Standard 100 ppb	<u>WP115307</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	10/24/2025
FROM	1.00000ml of WP115304 + 49.00000	ml of WP11:	3836 = Final	Quantity: 50.00	00 ml		(WC)	

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarvch
7	Calibration Standard 50 ppb	<u>WP115308</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	10/24/2025

FROM 0.50000ml of WP115304 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

Q3447-GENCHEM **39 of 73** 



Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
8	Calibration Standard 10 ppb	<u>WP115309</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	,
FROM	1.00000ml of WP115305 + 49.00000	ml of WP11:	3836 = Final	Quantity: 50.00	00 ml		(WC)	

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By Iwona Zarvch
9	Calibration Standard 5 ppb	<u>WP115310</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	, .

FROM 0.50000ml of WP115305 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

Q3447-GENCHEM **40 of 73** 



Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
167	0 ppb CN calibration std	WP115311	10/24/2025	10/25/2025	Rubina Mughal	None	None	
								10/24/2025
EDOM	50 00000ml of WP113836 = Final O	uantity: 50.0	00 ml					

<b>FROM</b> 50.00000ml of WP1	13836 = Final Quantity: 50.000 ml
-------------------------------	-----------------------------------

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarvch
1582	Chloramine T solution, 0.014M	WP115313	10/24/2025	10/25/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC	Glass Pipette-A	10/24/2025

**FROM** 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Q3447-GENCHEM **41 of 73** 



### **CHEMICAL RECEIPT LOG BOOK**

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 #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / lwona	02/20/2020 / Iwona	W3012
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019
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 / Iwona	07/03/2024 / Iwona	W3112

Q3447-GENCHEM **42 of 73** 



### **CHEMICAL RECEIPT LOG BOOK**

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 / Iwona	07/08/2024 / Iwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139
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 / Iwona	11/25/2024 / Iwona	W3152
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / Iwona	04/21/2025 / Iwona	W3203
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / Iwona	05/21/2025 / Iwona	W3214
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45060288	12/24/2025	07/07/2025 / Iwona	07/07/2025 / Iwona	W3224

Q3447-GENCHEM **43 of 73** 

W3019 Rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

**Product Name:** 

**Certificate of Analysis** 

Pyridine - anhydrous, 99.8%

**Product Number:** 

270970

**Batch Number:** 

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

Formula Weight:

Quality Release Date:

15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	> 99.75 %	99.99 %
Water (by Karl Fischer)	_ < 0.003 %	0.002 %
Residue on Evaporation	_ < 0.0005 %	< 0.0001 %

Larry Coers, Director **Quality Control** 

Sheboygan Falls, 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.





### **QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY** "An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: Inorganic ICV Solutions

### **QATS LABORATORY INORGANIC REFERENCE MATERIAL** INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

**APPLICATION:** For use with the CLP SFAM01.0 SOW and revisions.

**CAUTION:** Read instructions carefully before opening bottle(s) and proceeding with

the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions **HAZARDOUS MATERIAL** 

> Safety Data Sheets Available Upon Request

W2160, W2161, W2162, W2163, W2164 Receive by AP on 9/2/2016

### (A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.

### (B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

> **QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY APTIM Federal Services, LLC** 2700 Chandler Avenue - Building C Las Vegas, NV 89120

### (C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014

For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

Page 1 of 2

RMs ICV 1, 5, 6 SFAM.docx

QATS Form 20-007F188R00, 04-19-2021





The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Q3447-GENCHEM 45 of 73



### QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

### Instructions for QATS Reference Material: Inorganic ICV Solutions

ICV1-1014

<u>For ICP-MS analysis</u>, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415

For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v)  $K_2Cr_2O_7$  and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from K<sub>3</sub>Fe(CN)<sub>6</sub>, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

### (D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

	ICV1-1014	
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (μg/L) (after 50-fold dilution)
Al	2500	500
Sb	1000	200
As	1000	200
Ва	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Со	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
TI	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN <sup>-</sup>	99

Page 2 of 2

QATS Form 20-007F188R00, 04-19-2021

RMs ICV 1, 5, 6 SFAM.docx

Q3447-GENCHEM

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





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 <sub>2</sub> SO <sub>4</sub> )	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 SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH <sub>4</sub> )	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO <sub>3</sub> )	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (AI)	≤ 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
Frace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Frace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
race Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
race Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
race Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
race Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
race Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
race Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
race Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
race Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
race Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
race Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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





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

Test	Coocification	D 1
	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

Q3447-GENCHEM-

48 of 73





M 6151

R-> 1/15/25

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 HCI) (by acid-base titrn)	36.5 - 38.0 %	
ACS - Color (APHA)	≤ 10	37.9 %
ACS - Residue after Ignition	≤ 3 ppm	5
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	< 1 ppm
ACS – Bromide (Br)	≤ 0.005 %	1.191
ACS – Extractable Organic Substances	≤ 5 ppm	< 0.005 %
ACS - Free Chlorine (as Cl2)	≤ 0.5 ppm	< 1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.05 ppm	< 0.5 ppm
Sulfate (SO <sub>4</sub> )	≤ 0.03 ppm ≤ 0.5 ppm	< 0.03 ppm
Sulfite (SO <sub>3</sub> )	≤ 0.3 ppm ≤ 0.8 ppm	< 0.3 ppm
Ammonium (NH <sub>4</sub> )		0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities - Aluminum (Al)	≤ 0.010 ppm	< 0.003 ppm
Arsenic and Antimony (as As)	≤ 10.0 ppb	1.3 ppb
Trace Impurities - Barium (Ba)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Calcium (Ca)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 50.0 ppb	163.0 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.7 ppb
Frace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.3 ppb
Frace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.1 ppb
race Impurities – Germanium (Ge)	≤ 1.0 ppb	< 0.2 ppb
race Impurities – Gold (Au)	≤ 3.0 ppb	< 2.0 ppb
leavy Metals (as Pb)	≤ 4.0 ppb	0.6 ppb
race Impurities – Iron (Fe)	≤ 100 ppb	< 50 ppb
non (re)	≤ 15 ppb	6 ррв

>>> Continued on page 2 >>>

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





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
Frace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Frace Impurities – Thallium (TI)	≤ 5.0 ppb	< 2.0 ppb
Frace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
race Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
race Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
race Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
race 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

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC



Sodium Phosphate, Monobasic, Monohydrate, Crystal BAKER ANALYZED® A.C.S. Reagent ✓ avantor J.T.Bake

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05 Batch No.: 0000225799

Manufactured Date: 2018/12/05 Retest Date: 2025/12/03

Revision No: 1

### Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaH2PO4 · H2O)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (CI)	<= 5 ppm	< 5
ACS – Sulfate (SO <sub>4</sub> )	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	< 0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities - Iron (Fe)	<= 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN

Packaging Site: Paris Mfg Ctr & DC



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



12/14/2022

12/31/2025

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 Molecular Weight: 40

CAS #: 1310-73-2

Appearance: 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

Manufacture Date:

**Expiration Date:** 

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

Date Printed:

02/15/2023

Page 1 of 2

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Q3447-GENCHEM

53 of 73

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### **Sodium Hydroxide (Pellets)**

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

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

Storage: Room Temperature

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.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed: 02/15/2023

Page 2 of 2

Q3447-GENCHEM **54 of 73** 

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W3139 Received on 9/9/24 by IZ

Product No.: A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

Appearance: White powder Melting Point: 166°C(dec)
Assay (Iodometric titration): 100.5% Identification (FTIR): Conforms

Order our products online thermofisher.com/chemicals

This document has been electronically generated and does not require a signature.

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Q3447-GENCHEM 55 of 73

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### Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

825 Dillon Drive

Shipping and Correspondence: Manufacturing site:

Wood Dale, IL 60191 Wood Dale, IL 60191

### Certificate of Analysis

Catalogue Number 01237

935 Dillon Drive

Q3447-GENCHEM

**Lot Number** 002126-2019-201

Product Magnesium chloride hexahydrate

Magnesium chloride•6H<sub>2</sub>O

CAS Number 7791-18-6 Molecular Formula MgCl₂•6H₂O

Molecular Weight 203.3

**Appearance** White crystals

**Solubility** 167 g in 100 mL water

Melting Point $\sim 115$  °CHeavy Metals4.393 ppm

Anion Nitrate (NO<sub>3</sub>): < 0.001%

Phosphate (PO<sub>4</sub>) : < 5 ppm Sulfate (SO<sub>4</sub>) : < 0.002%

Cation Ammonium (NH<sub>4</sub>) : < 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 material0.0021%Assay by titration100.83%GradeACS reagentStorageStore at RT

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Page 1 of 2

56 of 73

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** 

Q3447-GENCHEM 57 of 73

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Page 2 of 2

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com techserv@sial.com Email USA:

Outside USA: eurtechserv@sial.com

### Certificate of Analysis

Barbituric acid - ReagentPlus®, 99%

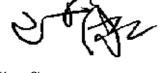
Product Name:

**Product Number:** 185698 Batch Number: WXBF3271V Brand: SIAL

CAS Number: 67-52-7 Formula: C4H4N2O3 Formula Weight: 128,09 g/mol Quality Release Date: 16 MAY 2024

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Test	Specification	Result	
Appearance (Colour)	White to Off-White	White	
Appearance (Form)	Pow der	Pow der	
Infrared spectrum	Conforms to Structure	Conforms	
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %	
GC (area %)	> 98 %	100 %	
VPCT	_		



Kang Chen Quality Manager Wuxi, China CN

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.

Version Number: 1

Page 1 of 1

Q3447-GENCHEM 58 of 73

448 West Fork Dr Arlington, TX 76012 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

### Certificate of Analysis

Cyanide Standard, 1000 ppm CN

Lot Number: 1505H73 Product Number: 2543

Manufacture Date: MAY 08, 2025

Expiration Date: NOV 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225% (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Potassium Cyanide	151-50-8	ACS	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)	

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN)	995-1005 ppm	1000 ppm

Specification	Reference					
Stock Standard Cyanide Solution	APHA (4500-CN- F)					
Stock Cyanide Solution	APHA (4500-CN- E)					
Stock Cyanide Solution	APHA (4500-CN- K)					
Stock Cyanide Solution	APHA (4500-CN- H)					
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)					
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)					
Stock Cyanide Solution	EPA (335.3)					
Stock Cyanide Solution	EPA (335.2)					
Cyanide Solution Stock	ASTM (D 4282)					
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)					

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Version: 1.3 Lot Number: 1505H73 Product Number: 2543 Page 1 of 2

Q3447-GENCHEM 59 of 73

Ernest Mahan (05/08/2025)

Plant Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Version: 1.3 Lot Number: 1505H73 Product Number: 2543 Page 2 of 2

Q3447-GENCHEM **60 of 73** 



### Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000 1010 Jackson's Pointe Court, Zelienople, PA 16063

### **Certificate of Analysis**

### Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: LC13545 Manufacture Date: June 25, 2025

Lot Number: 45060288 Expiration Date: December 24, 2025

Test	Specification	Result	
Appearance (clarity)	clear solution	clear solution	
Appearance (color)	colorless	colorless	
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL	
Concentration (CN)	990 - 1,010ppm	1,000ppm	
Traceable to NIST SRM	Report	999b	

**Intended Use** - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

**Storage Information** - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

**Instructions for Handling and Use -** Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

**Preparation -** All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

\*The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information\*

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

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ISO9001:2015 Registration #0306-01



OVENTEMP IN Celsius (°C): 107

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

**Time IN:** 17:25

**In Date:** 10/23/2025

OvenID: M OVEN#1

### PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/24/2025

104

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15

Out Date: 10/24/2025

Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4

Thermometer ID: % SOLID-OVEN

oc:LB137624

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
Q3399-03	COMP-ROLLOFF	15	1.15	10.96	12.11	11.00	89.9	
Q3437-03	SS-15R(2.0-2.5)	1	1.18	10.46	11.64	10.32	87.4	
Q3437-05	SS-26(0-0.5)	2	1.16	10.19	11.35	10.17	88.4	
Q3437-11	SS-27(0-0.5)	3	1.17	10.34	11.51	10.85	93.6	
Q3437-14	SS-25(0-0.5)	4	1.11	10.33	11.44	10.34	89.4	
Q3437-16	SS-23(0-0.5)	5	1.13	10.84	11.97	11.26	93.5	
Q3439-01	TP-9	6	1.18	10.29	11.47	10.55	91.1	
Q3439-02	TP-9-EPH	7	1.19	10.61	11.8	10.87	91.2	
Q3439-03	TP-9-VOC	8	1.18	10.14	11.32	10.41	91.0	
Q3439-05	TP-10	9	1.15	10.60	11.75	10.82	91.2	
Q3439-06	TP-10-EPH	10	1.19	10.17	11.36	10.44	91.0	
Q3439-07	TP-10-VOC	11	1.18	10.31	11.49	10.37	89.1	
Q3440-01	JB-2	12	1.13	11.32	12.45	10.38	81.7	
Q3440-02	ЈВ-2-ЕРН	13	1.17	10.42	11.59	9.79	82.7	
Q3440-03	JB-2-VOC	14	1.13	8.36	9.49	8.14	83.9	
Q3445-01	EO-01-102325	16	1.14	10.46	11.6	10.74	91.8	
Q3445-02	EO-01-102325-E2	17	1.16	10.40	11.56	10.57	90.5	
Q3446-01	SB-14	18	1.11	10.00	11.11	10.82	97.1	
Q3446-02	SB-15	19	1.14	10.54	11.68	11.64	99.6	
Q3446-03	SB-16	20	1.19	10.31	11.5	11.44	99.4	
Q3446-04	SB-17	21	1.19	10.13	11.32	11.27	99.5	
Q3446-05	SB-18	22	1.19	10.53	11.72	11.67	99.5	
Q3446-06	SB-19	23	1.15	10.44	11.59	11.32	97.4	
Q3446-07	SB-20	24	1.16	10.50	11.66	11.6	99.4	
Q3446-08	SB-21	25	1.14	10.08	11.22	10.9	96.8	
Q3447-01	P001-TW1-251023-01	26	1.00	1.00	2.00	2.00	100.0	TAR SAMPLE
Q3447-03	P001-TW2-251023-01	27	1.19	10.43	11.62	10.75	91.7	
Q3447-05	P001-TW3-251023-01	28	1.18	10.70	11.88	11.64	97.8	
447-GENC	LEM	l		I	l	l		62 of 73

Q3447-GENCHEM 62 of 73

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13



### PERCENT SOLID

Supervisor: Iwona

Analyst: jignesh
 Date: 10/24/2025

OVENTEMP IN Celsius(°C): 107 OVENTEMP OUT Celsius(°C): 104

Time IN: 17:25 Time OUT: 08:15

In Date: 10/23/2025 Out Date: 10/24/2025

 Weight Check 1.0g: 1.00
 Weight Check 1.0g: 1.00

 Weight Check 10g: 10.00
 Weight Check 10g: 10.00

OvenID: M OVEN#1 BalanceID: M SC-4 Thermometer ID: % SOLID-OVEN

**QC:**LB137624

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)		Comments
Q3447-07	P001-TW4-251023-01	29	1.00	1.00	2.00	2.00	100.0	TAR SAMPLE

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

Q3447-GENCHEM 63 of 73

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10

10

13

## WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

192629

WorkList ID:

MOHAN OF

10/20/2025 Chemtech -SO 10/22/2025 Chemtech -SO Chemtech -SO Chemtech -SC 10/23/2025 Chemtech -SO Chemtech -SO Chemtech -SO 10/22/2025 Chemtech -SO Chemtech -SO 10/23/2025 Chemtech -SO 10/23/2025 Chemtech -SO Chemtech -SO 10/23/2025 Chemtech -SO 10/23/2025 Chemtech -SO Date: 10-23-2025 08:26:05 Collect Date Method 10/22/2025 10/22/2025 0/22/2025 10/22/2025 10/22/2025 10/23/2025 10/22/2025 10/22/2025 10/23/2025 10/22/2025 10/22/2025 10/23/2025 10/23/2025 Raw Sample Storage Location **D41 D31 D31 D31 D31 D31 D41 D41 D41** D41 **D41** D41 **D41 D41 D41 D31 D31 D31** D31 **D31 D31** Customer PSEG03 MATR02 MATR02 MATR02 MATR02 PSEG03 PSEG03 PSEG03 MATR02 PSEG03 PSEG03 PSEG03 PSEG03 PSEG05 PSEG03 ICES02 PSEG03 PSEG05 PSEG03 PSEG03 PSEG03 Cool 4 deg C Preservative Percent Solids Test Matrix Solid 151,00 Customer Sample COMP-ROLLOFF EO-01-102325-E2 SS-15R(2.0-2.5) EO-01-102325 SS-26(0-0.5) SS-27(0-0.5) SS-25(0-0.5) SS-23(0-0.5) TP-10-VOC FP-10-EPH TP-9-VOC TP-9-EPH JB-2-EPH JB-2-VOC TP-10 SB-15 SB-16 SB-14 SB-17 TP-9 JB-2 Q3399-03 Q3437-03 Q3437-05 Q3437-16 Q3437-14 Q3439-03 Q3439-06 Q3437-11 Q3439-01 Q3439-02 Q3439-05 Q3440-02 Q3445-02 Q3439-07 Q3440-03 Q3446-03 Q3440-01 Q3445-01 Q3446-01 Q3446-02 Q3446-04 Sample 64 of 73

Page 1 of 2

ch (sm)

Raw Sample Received by: (20)

Date/Time

Raw Sample Relinquished by:

Raw Sample Relinquished by: 10 11 12 13

Raw Sample Received by:

10/23/1

Date/Time







%1-102325

# WORKLIST(Hardcopy Internal Chain) への (分子に入り)

Q3447-G	Q3447-G			WORKLIST(Hard	WORKLIST(Hardcopy Internal Chain)		401741 W		
ENC	WorkList Name :	%1-102325	WorkList ID :	D: 192629	Department :	Wet-Chemistry	_	Date: 10-23-20	10-23-2025 08:26:05
HEM	Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
	Q3446-05	SB-18	Solid	Percent Solids	Cool 4 deg C	00000			
	Q3446-06	SB-19	Filo			205167	LUST	10/23/2025	10/23/2025 Chemtech -SO
	00440		DIIOO	rercent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	10/23/2025 Chemtech -SO
	Q3446-U7	SB-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	D34	40/09/2008	
	Q3446-08	SB-21	Solid	Percent Solids	Cool 4 deg C	300		6202/62/01	U/23/2023 Chemtech -50
	Q3447-01	P001-TW1-251023-01	Solid		0 P 1000	2000	ารถ	10/23/2025	10/23/2025 Chemtech -SO
-	03447-03	DOOD TANK CAN'T FOOD		epiloo ilioolo	Cool 4 deg C	ROYF02	D41	10/23/2025	10/23/2025 Chemtech -SO
	100	F001-1 WZ-Z510Z3-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	D41	10/23/2025	10/23/2025 Chemtech - CO
	Q3447-05	P001-TW3-251023-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	140	40/22/2026	
	Q3447-07	P001-TW4-251023-01	Solid	Percent Solids	Cool 4 dea C	ROVE02	5   5	10/20/20/20	10/23/2023 Chemtech -50
					- D	20 11 02	- 40	10/23/2025	10/23/2025 Chemtech -SO

10/23/2025 Chemtech -SO

Date/Time 10(1.9/1.5

Raw Sample Received by:

Raw Sample Relinquished by:

Page 2 of 2

Raw Sample Received by: Rd CWC/

Raw Sample Relinquished by:



### SHIPPING DOCUMENTS

Page 1 of 4

AirbillNo: N/A

USEPA
DateShipped: 10/23/2025

CHAIN OF CUSTODY RECORD
Site #: 02FP

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non

CLP

(470) 277-4600

Lab Phone: 908-728-3144

CarrierName: Hand Deliver Contact Name Josh Frizzell

Lab# Sample # Location CLP Tag Analyses Matrix Sample Sample Numb Container Preservati Lab Sample # Date Time Cont ve QC P001-TW1-Waste Α TAL VOCs 10/23/202 4 5 gram 4 C 10:00 Ν 251023-01 Encore/4 oz glass P001-TW1-Waste В TAL SVOCs 10/23/202 10:00 1 8 oz glass 4 C Ν 251023-01 P001-TW1-С TAL PCBs Waste 10/23/202 10:00 1 8 oz glass 4 C N 251023-01 P001-TW1-Waste D TAL Pesticides 10:00 4 C 10/23/202 1 8 oz glass Ν 251023-01 P001-TW1-Waste Е TAL Metals + Hg + CN 10/23/202 10:00 1 8 oz glass 4 C Ν 251023-01 F P001-TW1-Waste TCLP VOC 10/23/202 10:00 1 8 oz glass 4 C Ν 251023-01 5 P001-TW1-G Waste TCLP SVOC, TCLP Pesticide 10/23/202 10:00 8 oz glass 4 C N 251023-01 5 P001-TW1-TCLP Metals + Hg Waste 10/23/202 10:00 1 8 oz glass 4 C N 251023-01 P001-TW1-TCLP Herbicide Waste J 10/23/202 10:00 1 8 oz glass 4 C Ν 251023-01 5

Special Instructions: POSSIBLE HIGH CONCENTRATIONS please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Augles All the lies	Olga kuzmitskene	10/23/25	CK-	10 23 25	If-Con# 1 2.1-C

Page 2 of 4

**USEPA** 

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

**CHAIN OF CUSTODY RECORD** 

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non

CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont		Preservati ve	Lab QC
	P001-TW2- 251023-01	Waste		A	TAL VOCs		10/23/202 5	10:30	4	5 gram Encore/4 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		В	TAL SVOCs		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		С	TAL PCBs		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		D	TAL Pesticides		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		E	TAL Metals + Hg + CN		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		F	TCLP VOC		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		I	TCLP Metals + Hg		10/23/202 5	10:30	1	8 oz glass	4 C	N
	P001-TW2- 251023-01	Waste		J	TCLP Herbicide		10/23/202 5	10:30	1	8 oz glass	4 C	N

Special Instructions: POSSIBLE HIGH CONCENTRATIONS. Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Olpa kuznitskava	10/23/25	CV-	10/23/2+	Ff. 6 41 2.1
				( )	

Page 3 of 4

**USEPA** 

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

**CHAIN OF CUSTODY RECORD** 

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non

Lab Phone: 908-728-3144

_ab #	Sample #	Location	cation CLP Sample #		Analyses	Matrix	Sample Date	Sample Time	Numb Cont		Preservati ve	Lab QC
	P001-TW3- 251023-01	Waste		А	TAL VOCs		10/23/202 5	11:00	1	4 oz glass w/septum	4 C	N
	P001-TW3- 251023-01	Waste		В	TAL SVOCs		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW3- 251023-01	Waste		С	TAL PCBs		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW3- 251023-01	Waste		D	TAL Pesticides		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW3- 251023-01	Waste		E	TAL Metals + Hg + CN		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW3- 251023-01	Waste		F	TCLP VOC		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW3- 251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW3- 251023-01	Waste		I	TCLP Metals + Hg		10/23/202 5	11:00	1	8 oz glass	4 C	N
1	P001-TW3- 251023-01	Waste		J	TCLP Herbicide		10/23/202 5	11:00	1	8 oz glass	4 C	N
	P001-TW4- 251023-01	Waste		Α	TAL VOCs		10/23/202 5	11:30	1	4 oz glass w/septum	4 C	N

Special Instructions POSSIBLE HIGH CONCENTRATIONS Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RF P# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY#** 

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received Signature and Organization)	Date/Time	Sample Condition Upon Receipt		
All Samples All Analyses	Oga Ruzmitskanz	16/23/25	CK.	10/23/25	If Cout 1 2.1-		
/**							

Page 4 of 4

**USEPA** 

**CHAIN OF CUSTODY RECORD** Site #: 02FP

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non

CLP

Lab Phone: 908-728-3144

Contact Name Josh Frizzell

AirbillNo: N/A

DateShipped: 10/23/2025

CarrierName: Hand Deliver

(470) 277-4600

CLP Lab# Sample # Location Matrix Sample Sample Numb Container Preservati Tag Analyses Lab Sample # Date Time QC Cont ve В P001-TW4-Waste TAL SVOCs 10/23/202 11:30 1 8 oz glass 4 C N 251023-01 5 P001-TW4-С TAL PCBs 10/23/202 11:30 4 C Waste 1 8 oz glass N 251023-01 P001-TW4-D TAL Pesticides 10/23/202 11:30 4 C Waste 1 8 oz glass N 251023-01 5 P001-TW4-Е 4 C Waste TAL Metals + Hg + CN 10/23/202 11:30 1 8 oz glass N 251023-01 5 P001-TW4-Waste F TCLP VOC 10/23/202 11:30 1 8 oz glass 4 C N 251023-01 4 C P001-TW4-Waste G TCLP SVOC, TCLP Pesticide 10/23/202 11:30 8 oz glass Ν 251023-01 30 10-23-25 P001-TW4-Waste TCLP Metals + Hq 10/23/202 11:30 1 8 oz glass 4 C N 251023-01 5 J P001-TW4-Waste TCLP Herbicide 10/23/202 11:30 1 8 oz glass 4 C N 251023-01 JOF 10-23-2635

Special Instructions POSSIBLE HIGH CONCENTRATIONS. Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westo solutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM **CHAIN OF CUSTODY #** 

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Amafise	opa kuzmitskare	1330	CV-	10/23/25	Ff.Cont / 2.19
3474			***	N (4	

## Precautionary Measures Against Hidden Hazards in Laboratory Samples

### Notice to Laboratory Personnel

### Background

of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990, Subtitle I of the Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutants and contaminants, that pose an actual or potential threat to human Resource Conservation and Recovery Act (RCRA), an pursuant to the National Oil and Hazardous Substances Pollution on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment & Response Team (START) for EPA. The WESTON START Contract 68HE0319D0004, provides this support to EPA Region II.

### Hazardous Communication

The Samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and tentatively designated by the field response team, as either environmental or hazardous material samples.

site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey In general, Environmental Samples are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected waste sites are considered Hazardous Samples. Samples which are obtained from a known radioactive material contamination from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous meter are considered Radioactive Samples.

The samples which accompany this notice were tentatively classified by the field response team as:

| Hazardone | Comb | Chapter & Hazardone | Dailonetine | Radioactive Comb (Envir. & Haz) Hazardous Environmental

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

Level A Level B Level C Level D

and This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

Laboratory Name: All: auce RFP No. 905 Prepared by: Josh Frizzell Date 10-23-2025

WESTON Office: Region II START, Edison, New Jersey, Phone: 732-585-4400



### 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

QA Control Code: A2070148 Q3447-GENCHEM



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

Fax: 908 789 8922

### LOGIN REPORT/SAMPLE TRANSFER

Order ID: Q3447

ROYF02

Order Date: 10/23/2025 1:50:00 PM

Project Mgr:

Client Name: Weston Solutions, Inc.

Project Name: RFP 905

Report Type: Level 4

Client Contact: Smita Sumbaly

Invoice Contact: Smita Sumbaly

Receive DateTime: 10/23/2025 1:30:00 PM

EDD Type: EXCEL NOCLEANUP

Invoice Name: Weston Solutions, Inc.

Purchase Order:

Hard Copy Date:

Date Signoff:

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q3447-01	P001-TW1-251023-01	Solid	10/23/2025	10:00						
Q3447-03	P001-TW2-251023-01	Solid	10/23/2025	10:30 1 <del>0:8</del> 0	VOC-TCLVOA-10		8260D	10 Bus. Days		
Q3447-05	P001-TW3-251023-01	Solid	10/23/2025	)\·	VOC-TCLVOA-10		8260D	10 Bus. Days		
Q3447-07	P001-TW4-251023-01	Solid	10/23/2025	11:30 1 <del>0:0</del> 0	VOC-TCLVOA-10		8260D	10 Bus. Days		
	100				VOC-TCLVOA-10		8260D	10 Bus. Days		

Relinguished By:

Received By:

Date / Time:

Storage Area: VOA Refridgerator Room