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

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : Q2259

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

Table Of Contents for Q2259

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Cover Page

Order ID : Q2259

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q2259-01	OU4-PCS-TC-36-060525
Q2259-02	OU4-PCS-TC-36-060525
Q2259-03	OU4-PCS-TC-37-060525
Q2259-04	OU4-PCS-TC-37-060525
Q2259-05	OU4-TS-29-060525
Q2259-06	OU4-TS-30-060525

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:51 am, Jun 23, 2025

Date: 6/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q2259
Test Name: Cyanide

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 06/06/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3 and VOCMS Group3. 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 samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

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

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: Q2259 MATRIX: Solid

METHOD: 9012B

		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 samples.			
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:

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:10 am, Jun 23, 2025

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2259

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

QA Review Signature: SOHIL JODHANI **Date:** 06/17/2025

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LAB CHRONICLE

OrderID:	Q2259	**OrderDate:**	6/6/2025 10:57:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	D21,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2259-01	**OU4-PCS-TC-36-060525**	**SOIL**			**06/05/25 11:25**			**06/06/25**
			Cyanide	9012B		06/09/25	06/09/25 13:11	
Q2259-03	**OU4-PCS-TC-37-060525**	**SOIL**			**06/05/25 11:35**			**06/06/25**
			Cyanide	9012B		06/09/25	06/09/25 13:11	

SAMPLE DATA

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

Client:	Nobis Group	Date Collected:	06/05/25 11:25
Project:	Raymark Superfund Site	Date Received:	06/06/25
Client Sample ID:	OU4-PCS-TC-36-060525	SDG No.:	Q2259
Lab Sample ID:	Q2259-01	Matrix:	SOIL
		% Solid:	94.3

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.12	J	1	0.044	0.21	0.26	mg/Kg	06/09/25 10:00	06/09/25 13:11	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

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Report of Analysis

Client:	Nobis Group	Date Collected:	06/05/25 11:35
Project:	Raymark Superfund Site	Date Received:	06/06/25
Client Sample ID:	OU4-PCS-TC-37-060525	SDG No.:	Q2259
Lab Sample ID:	Q2259-03	Matrix:	SOIL
		% Solid:	94.3

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.089	J	1	0.043	0.20	0.25	mg/Kg	06/09/25 10:00	06/09/25 13:11	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

QC RESULT SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Initial and Continuing Calibration Verification

Client: Nobis Group **SDG No.:** Q2259

Project: Raymark Superfund Site **RunNo.:** LB136063

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Cyanide		mg/L	0.095	0.099	96	90-110	06/09/2025
Sample ID:	CCV1						
Cyanide		mg/L	0.24	0.25	96	90-110	06/09/2025
Sample ID:	CCV2						
Cyanide		mg/L	0.23	0.25	92	90-110	06/09/2025
Sample ID:	CCV3						
Cyanide		mg/L	0.24	0.25	96	90-110	06/09/2025

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Initial and Continuing Calibration Blank Summary

Client:	Nobis Group	**SDG No.:**	Q2259
Project:	Raymark Superfund Site	**RunNo.:**	LB136063

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/09/2025
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/09/2025
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/09/2025
Sample ID:	CCB3							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/09/2025

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Preparation Blank Summary

Client: Nobis Group **SDG No.:** Q2259

Project: Raymark Superfund Site

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB168361BL							
Cyanide	mg/Kg	< 0.1250	0.1250	U	0.042	0.25	06/09/2025

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Matrix Spike Summary

Client: Nobis Group
Project: Raymark Superfund Site
Client ID: OU4-TS-30-060525MS
SDG No.: Q2259
Sample ID: Q2259-06
Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.40		0.096	J	2.5	1	92		06/09/2025

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Matrix Spike Summary

Client: Nobis Group
Project: Raymark Superfund Site
Client ID: OU4-TS-30-060525MSD
SDG No.: Q2259
Sample ID: Q2259-06
Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.40		0.096	J	2.5	1	92		06/09/2025

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Duplicate Sample Summary

Client: Nobis Group
Project: Raymark Superfund Site
Client ID: OU4-TS-30-060525DUP
SDG No.: Q2259
Sample ID: Q2259-06
Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.096	J	0.097	J	1	1		06/09/2025

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Duplicate Sample Summary

Client: Nobis Group
Project: Raymark Superfund Site
Client ID: OU4-TS-30-060525MSD
SDG No.: Q2259
Sample ID: Q2259-06
Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.40		2.40		1	0		06/09/2025

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Laboratory Control Sample Summary

Client:	Nobis Group	**SDG No.:**	Q2259
Project:	Raymark Superfund Site	**Run No.:**	LB136063

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB168361BS**								
Cyanide	mg/Kg	5	4.70		94	1	85-115	06/09/2025

RAW DATA

LB136

Test results — Aquakem 7.2AQ1 — Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM — Instrument ID : Konelab

6/9/2025 13:21

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	95.393	0.0	0.079	
ICB1	0.880	0.0	0.001	
CCV1	237.625	0.0	0.197	
CCB1	0.620	0.0	0.001	
PB168347BL	0.583	0.0	0.001	
PB168347BS	95.810	0.0	0.079	
LOWPB168347	9.979	0.0	0.008	99% (90–110)
HIGHPB168347	479.472	0.0	0.397	
Q2243-02	4.585	0.0	0.004	95% (90–110) 06/09/2025 RM
Q2243-02DUP	4.356	0.0	0.004	
Q2243-02MS	39.843	0.0	0.033	
Q2243-02MSD	39.062	0.0	0.033	
PB168361BL	0.722	0.0	0.001	
PB168361BS	93.774	0.0	0.078	
CCV2	228.232	0.0	0.189	
CCB2	0.602	0.0	0.001	
Q2259-01	2.281	0.0	0.002	
Q2259-03	1.751	0.0	0.002	
Q2259-05	2.245	0.0	0.002	
Q2259-06	1.537	0.0	0.002	
Q2259-06DUP	1.544	0.0	0.002	
Q2259-06MS	38.504	0.0	0.032	
Q2259-06MSD	38.959	0.0	0.032	
CCV3	237.053	0.0	0.196	
CCB3	0.906	0.0	0.001	

N	25
Mean	66.253
SD	115.1547
CV%	173.81

Aquakem v. 7.2AQ1
Results from time period:
Mon Jun 09 12:55:49 2025
Mon Jun 09 13:18:41 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.5227	µg/l	6/9/2025 9:48:16	
5.0PPBCN	A	Total CN	P	4.676	µg/l	6/9/2025 9:48:17	
10PPBCN	A	Total CN	P	10.4764	µg/l	6/9/2025 9:48:18	
50PPBCN	A	Total CN	P	49.6698	µg/l	6/9/2025 9:48:19	
100PPBCN	A	Total CN	P	101.1189	µg/l	6/9/2025 9:48:20	
250PPBCN	A	Total CN	P	247.4667	µg/l	6/9/2025 9:48:21	
500PPBCN	A	Total CN	P	501.0696	µg/l	6/9/2025 9:48:22	
ICV1	S	Total CN	P	95.3933	µg/l	6/9/2025 12:55:50	
ICB1	S	Total CN	P	0.8797	µg/l	6/9/2025 12:55:51	
CCV1	S	Total CN	P	237.6246	µg/l	6/9/2025 12:55:54	
CCB1	S	Total CN	P	0.6199	µg/l	6/9/2025 12:55:56	
PB168347BL	S	Total CN	P	0.5834	µg/l	6/9/2025 12:55:58	
PB168347BS	S	Total CN	P	95.8097	µg/l	6/9/2025 12:55:59	
LOWPB168347	S	Total CN	P	9.9789	µg/l	6/9/2025 13:03:25	
HIGHPB168347	S	Total CN	P	479.4719	µg/l	6/9/2025 13:03:28	
Q2243-02	S	Total CN	P	4.5847	µg/l	6/9/2025 13:03:29	
Q2243-02DUP	S	Total CN	P	4.3561	µg/l	6/9/2025 13:03:30	
Q2243-02MS	S	Total CN	P	39.8433	µg/l	6/9/2025 13:03:31	
Q2243-02MSD	S	Total CN	P	39.0624	µg/l	6/9/2025 13:03:32	
PB168361BL	S	Total CN	P	0.7219	µg/l	6/9/2025 13:03:34	
PB168361BS	S	Total CN	P	93.7741	µg/l	6/9/2025 13:10:57	
CCV2	S	Total CN	P	228.2317	µg/l	6/9/2025 13:10:59	
CCB2	S	Total CN	P	0.602	µg/l	6/9/2025 13:11:01	
Q2259-01	S	Total CN	P	2.2807	µg/l	6/9/2025 13:11:02	
Q2259-03	S	Total CN	P	1.7509	µg/l	6/9/2025 13:11:03	
Q2259-05	S	Total CN	P	2.2445	µg/l	6/9/2025 13:11:04	
Q2259-06	S	Total CN	P	1.5368	µg/l	6/9/2025 13:11:06	
Q2259-06DUP	S	Total CN	P	1.5439	µg/l	6/9/2025 13:18:31	
Q2259-06MS	S	Total CN	P	38.5041	µg/l	6/9/2025 13:18:35	
Q2259-06MSD	S	Total CN	P	38.9593	µg/l	6/9/2025 13:18:36	
CCV3	S	Total CN	P	237.0526	µg/l	6/9/2025 13:18:38	
CCB3	S	Total CN	P	0.9061	µg/l	6/9/2025 13:18:40	

Calibration results Aquakem 7.2AQ1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

6/9/2025 9:54 Reviewed by : RM Instrument ID : Konelab

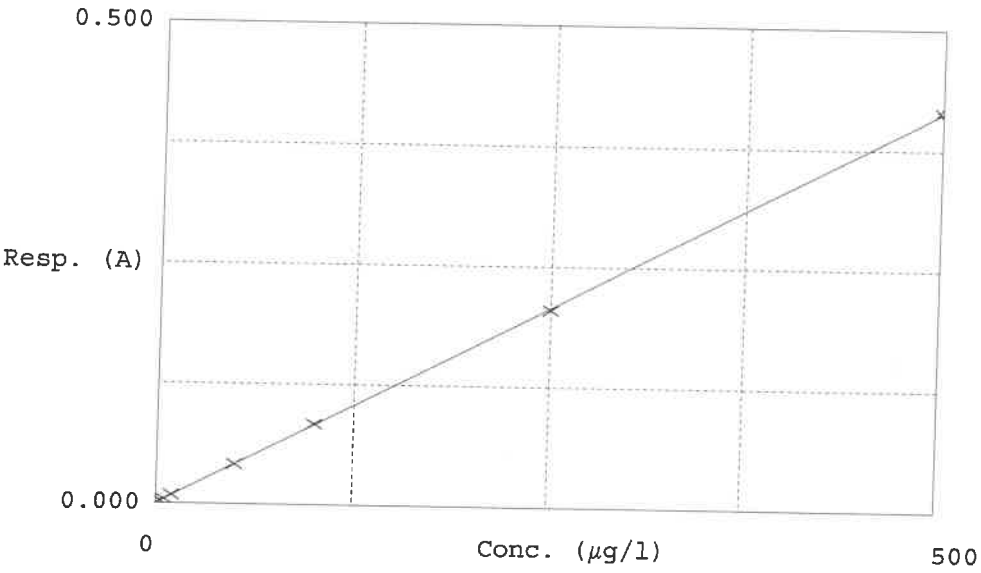
Test Total CN

Accepted 6/9/2025 9:54

Factor 1209
Bias 0

Coeff. of det. 0.999954

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	0.5227	0.0000	-6.5
2	5.0PPBCN	0.004	4.6760	5.0000	4.0
3	10PPBCN	0.009	10.4764	10.0000	-0.7
4	50PPBCN	0.041	49.6698	50.0000	1.1
5	100PPBCN	0.084	101.1189	100.0000	-1.0
6	250PPBCN	0.205	247.4667	250.0000	0.2
7	500PPBCN	0.415	501.0696	500.0000	

06/09/2025
RM

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB168361

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 06/09/2025 **Time :** 10:00 **Temp :** 124 °C

Matrix : SOIL

End Digest Date: 06/09/2025 **Time :** 11:30 **Temp :** 126 °C

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

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

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

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP112995
MS/MSD SPIKE SOL.	0.40ML	WP113319
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
50% v/v H2SO4	5.0ML	WP112826
51% w/v MgCL2	2.0ML	WP112827
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
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	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	N/A	AS PER PB168347
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB168347
LOWSTD	LOWSTD	N/A	AS PER PB168347

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/09/2025 11:40	JP / WC	RM (WC)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB168361

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168361BL	PBS361	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168361BS	LCS361	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-01	OU4-PCS-TC-36-060525	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-03	OU4-PCS-TC-37-060525	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-05	OU4-TS-29-060525	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-06	OU4-TS-30-060525	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-06DUP	OU4-TS-30-060525DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-06MS	OU4-TS-30-060525MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2259-06MSD	OU4-TS-30-060525MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN Q2259 SOLIDS **WorkList ID :** 190019 **Department :** Distillation **Date :** 06-09-2025 07:33:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2259-01	OU4-PCS-TC-36-060525	Solid	Cyanide	Cool 4 deg C	NOBI03	D21	06/05/2025	9012B
Q2259-03	OU4-PCS-TC-37-060525	Solid	Cyanide	Cool 4 deg C	NOBI03	D21	06/05/2025	9012B
Q2259-05	OU4-TS-29-060525	Solid	Cyanide	Cool 4 deg C	NOBI03	D21	06/05/2025	9012B
Q2259-06	OU4-TS-30-060525	Solid	Cyanide	Cool 4 deg C	NOBI03	D21	06/05/2025	9012B

Date/Time 06/09/2025 09.00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Date/Time 06/09/2025 10.30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136063

Review By	rubina	Review On	6/10/2025 10:17:15 AM
Supervise By	Iwona	Supervise On	6/10/2025 11:45:46 AM
SubDirectory	LB136063	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113433,WP113434,WP113435,WP113436,WP113437,WP113438,WP113439
ICV Standard	W3012
CCV Standard	WP113434
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112995
Chk Standard	WP112643,WP112900,WP113441

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/09/25 09:48		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/09/25 09:48		rubina	OK
3	10PPBCN	10PPBCN	CAL3	06/09/25 09:48		rubina	OK
4	50PPBCN	50PPBCN	CAL4	06/09/25 09:48		rubina	OK
5	100PPBCN	100PPBCN	CAL5	06/09/25 09:48		rubina	OK
6	250PPBCN	250PPBCN	CAL6	06/09/25 09:48		rubina	OK
7	500PPBCN	500PPBCN	CAL7	06/09/25 09:48		rubina	OK
8	ICV1	ICV1	ICV	06/09/25 12:55		rubina	OK
9	ICB1	ICB1	ICB	06/09/25 12:55		rubina	OK
10	CCV1	CCV1	CCV	06/09/25 12:55		rubina	OK
11	CCB1	CCB1	CCB	06/09/25 12:55		rubina	OK
12	PB168347BL	PB168347BL	MB	06/09/25 12:55		rubina	OK
13	PB168347BS	PB168347BS	LCS	06/09/25 12:55		rubina	OK
14	LOWPB168347	LOWPB168347	SAM	06/09/25 13:03		rubina	OK
15	HIGHPB168347	HIGHPB168347	SAM	06/09/25 13:03		rubina	OK
16	Q2243-02	WATER-TREATMENT	SAM	06/09/25 13:03		rubina	OK
17	Q2243-02DUP	WATER-TREATMENT	DUP	06/09/25 13:03		rubina	OK
18	Q2243-02MS	WATER-TREATMENT	MS	06/09/25 13:03		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136063

Review By	rubina	Review On	6/10/2025 10:17:15 AM
Supervise By	Iwona	Supervise On	6/10/2025 11:45:46 AM
SubDirectory	LB136063	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113433,WP113434,WP113435,WP113436,WP113437,WP113438,WP113439
ICV Standard	W3012
CCV Standard	WP113434
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112995
Chk Standard	WP112643,WP112900,WP113441

19	Q2243-02MSD	WATER-TREATMENT	MSD	06/09/25 13:03		rubina	OK
20	PB168361BL	PB168361BL	MB	06/09/25 13:03		rubina	OK
21	PB168361BS	PB168361BS	LCS	06/09/25 13:10		rubina	OK
22	CCV2	CCV2	CCV	06/09/25 13:10		rubina	OK
23	CCB2	CCB2	CCB	06/09/25 13:11		rubina	OK
24	Q2259-01	OU4-PCS-TC-36-060	SAM	06/09/25 13:11		rubina	OK
25	Q2259-03	OU4-PCS-TC-37-060	SAM	06/09/25 13:11		rubina	OK
26	Q2259-05	OU4-TS-29-060525	SAM	06/09/25 13:11		rubina	OK
27	Q2259-06	OU4-TS-30-060525	SAM	06/09/25 13:11		rubina	OK
28	Q2259-06DUP	OU4-TS-30-060525DU	DUP	06/09/25 13:18		rubina	OK
29	Q2259-06MS	OU4-TS-30-060525M	MS	06/09/25 13:18		rubina	OK
30	Q2259-06MSD	OU4-TS-30-060525M	MSD	06/09/25 13:18		rubina	OK
31	CCV3	CCV3	CCV	06/09/25 13:18		rubina	OK
32	CCB3	CCB3	CCB	06/09/25 13:18		rubina	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2259

Test : Cyanide,Percent Solids

Prepbatch ID : PB168361,

Sequence ID/Qc Batch ID: LB136063,

Standard ID :
WP111294,WP112643,WP112826,WP112827,WP112900,WP112995,WP113319,WP113432,WP113433,WP113434,WP113435,WP113436,WP113437,WP113438,WP113439,WP113441,

Chemical ID :
M6041,M6151,W2668,W3012,W3019,W3112,W3113,W3139,W3152,W3173,W3203,W3214,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/07/2025

FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2025

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP112826	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025

FROM 1000.00000ml of M6041 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP112827	04/25/2025	10/25/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/25/2025

FROM 500.00000ml of W3112 + 510.00000gram of W3152 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
607	PYRIDINE-BARBITURIC ACID	WP112900	05/01/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	Glass Pipette-A	Iwona Zarych 05/01/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3371	Cyanide LCS Spike Solution, 5PPM	WP112995	05/07/2025	07/07/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/07/2025

FROM 1.00000ml of W3173 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP113319	06/02/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/02/2025

FROM 1.00000ml of W3214 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3456	Cyanide Intermediate Working Std, 5PPM	WP113432	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 0.25000ml of W3214 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP113433	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 45.00000ml of WP111294 + 5.00000ml of WP113432 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3761	Calibration-CCV CN Standard 250 ppb	WP113434	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 2.50000ml of WP113432 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP113435	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 1.00000ml of WP113432 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
7	Calibration Standard 50 ppb	WP113436	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 0.50000ml of WP113432 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP113437	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 1.00000ml of WP113433 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9	Calibration Standard 5 ppb	WP113438	06/09/2025	06/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 0.50000ml of WP113433 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
167	0 ppb CN calibration std	WP113439	06/09/2025	06/10/2025	Rubina Mughal	None	None	Iwona Zarych 06/10/2025

FROM 50.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP113441	06/09/2025	06/10/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 06/10/2025

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

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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	08/18/2025	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 / Iwona	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

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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.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45010168	07/17/2025	01/24/2025 / Iwona	01/24/2025 / Iwona	W3173

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

Sigma-Aldrich.

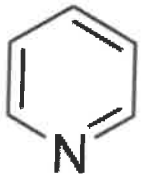
W3019
Rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Pyridine - anhydrous, 99.8%

Product Number:	**270970**
Batch Number:	**SHBQ2113**
Brand:	SIAL
CAS Number:	110-86-1
MDL Number:	MFCD00011732
Formula:	C5H5N
Formula Weight:	79.10 g/mol
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

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

W3011
W3012
W3013
W3014
W3015

ICV5-0415 For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the 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: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the 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 $K_3Fe(CN)_6$, 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	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

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

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

M 6041-46
MS

avantor™ | J.T.Baker®

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_2SO_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 SO2)	≤ 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

avantor™ | J.T.Baker®

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

avantor™ | J.T.Baker®

M6151

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 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

avantor™ | J.T.Baker®

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

avantor™ | J.T.Baker®

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

Test	Specification	Result

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

James T Ethier

Jamie Ethier
Vice President Global Quality

Sodium Phosphate, Monobasic, Monohydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(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 ($NaH_2PO_4 \cdot H_2O$)	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 (Cl)	<= 5 ppm	< 5
ACS - Sulfate (SO_4)	<= 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

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

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

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

Pellets

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

Storage: Room Temperature

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.

Certificate of Analysis

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

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.

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

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•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
Molecular Weight	203.3

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

LabChem
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: January 16, 2025

Lot Number: **45010168**

Expiration Date: July 17, 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

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

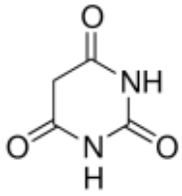
2025011610:36:11bsturges-0-0

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Barbituric acid - ReagentPlus® , 99%

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



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

Kang Chen
Quality Manager
Wuxi , China CN

RICCA CHEMICAL COMPANY®

W3214 Received on 5/21/25 by IZ

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 certifiec 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)

Ernest Mahan (05/08/2025)
Plant Manager

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/9/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:25
In Date: 06/06/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 06/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136040

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
Q2246-01	BU-03-060525	1	1.15	10.12	11.27	11.17	99.0	
Q2246-02	BU-03-060525	2	1.19	10.04	11.23	11.1	98.7	
Q2247-01	GAS-PIPE-1	3	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2247-02	GAS-PIPE-2	4	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2248-01	TR-05-060525	5	1.18	10.36	11.54	10.88	93.6	
Q2248-02	TR-05-060525-E2	6	1.13	10.59	11.72	10.74	90.7	
Q2251-07	BP-VPB-182-GW-780-782	7	1.12	10.70	11.82	2.46	12.5	sludge sample
Q2258-05	SVOC-GPC-BLANK	8	1.00	1.00	2.00	2.00	100.0	
Q2258-06	PEST-GPC-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q2258-07	PEST-GPC-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q2258-08	PCB-GPC-BLANK	11	1.00	1.00	2.00	2.00	100.0	
Q2258-09	PCB-GPC-BLANK-SPIKE	12	1.00	1.00	2.00	2.00	100.0	
Q2258-10	SVOC-GPC2-BLANK	13	1.00	1.00	2.00	2.00	100.0	
Q2258-11	PEST-GPC2-BLANK	14	1.00	1.00	2.00	2.00	100.0	
Q2258-12	PEST-GPC2-BLANK-SPIKE	15	1.00	1.00	2.00	2.00	100.0	
Q2258-13	PCB-GPC2-BLANK	16	1.00	1.00	2.00	2.00	100.0	
Q2258-14	PCB-GCP2-BLANK-SPIKE	17	1.00	1.00	2.00	2.00	100.0	
Q2259-01	OU4-PCS-TC-36-060525	18	1.14	10.79	11.93	11.31	94.3	
Q2259-03	OU4-PCS-TC-37-060525	19	1.14	10.14	11.28	10.7	94.3	
Q2259-05	OU4-TS-29-060525	20	1.18	10.17	11.35	8.87	75.6	
Q2259-06	OU4-TS-30-060525	21	1.14	10.73	11.87	9.62	79.0	
Q2260-01	TP10-MHG-WC	22	1.13	10.84	11.97	10.95	90.6	
Q2260-02	TP10-MHG-VOC	23	1.16	10.66	11.82	10.84	90.8	
Q2260-03	TP10-MHG-EPH	24	1.13	10.75	11.88	10.68	88.8	
Q2262-01	ARS20-0032	25	1.14	11.40	12.54	12.22	97.2	
Q2262-03	ARS20-0001	26	1.18	9.85	11.03	10.38	93.4	
Q2265-01	TP-MHL-WC	27	1.15	10.83	11.98	10.43	85.7	
Q2265-02	TP-MHL-VOC	28	1.14	10.32	11.46	9.7	82.9	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/9/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:25
In Date: 06/06/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 06/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136040

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
Q2265-03	TP-MHL-EPH	29	1.18	10.48	11.66	9.77	82.0	
Q2266-01	WC-3	30	1.16	10.74	11.9	10.68	88.6	
Q2266-02	WC-3-EPH	31	1.15	11.18	12.33	10.15	80.5	
Q2266-03	WC-3-VOC	32	1.13	10.74	11.87	10.02	82.8	
Q2266-05	WC-4	33	1.19	10.47	11.66	10.36	87.6	
Q2266-06	WC-4-EPH	34	1.15	10.46	11.61	10.31	87.6	
Q2266-07	WC-4-VOC	35	1.19	10.71	11.9	10.74	89.2	

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

WORKLIST(Hardcopy Internal Chain)

VP 136040

WorkList Name : %1-060625 **WorkList ID :** 189986 **Department :** Wet-Chemistry **Date :** 06-06-2025 08:11:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2246-01	BU-03-060525	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	06/05/2025	Chemtech -SO
Q2246-02	BU-03-060525	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	06/05/2025	Chemtech -SO
Q2247-01	GAS-PIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	06/05/2025	Chemtech -SO
Q2247-02	GAS-PIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	06/05/2025	Chemtech -SO
Q2248-01	TR-05-060525	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	06/05/2025	Chemtech -SO
Q2248-02	TR-05-060525-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	06/05/2025	Chemtech -SO
Q2251-07	BP-VPB-182-GW-780-782	Solid	Percent Solids	Cool 4 deg C	TETR06	L31	06/04/2025	Chemtech -SO
Q2258-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2258-14	PCB-GCP2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	05/30/2025	Chemtech -SO
Q2259-01	OU4-PCS-TC-36-060525	Solid	Percent Solids	Cool 4 deg C	NOBI03	D21	06/05/2025	Chemtech -SO
Q2259-03	OU4-PCS-TC-37-060525	Solid	Percent Solids	Cool 4 deg C	NOBI03	D21	06/05/2025	Chemtech -SO
Q2259-05	OU4-TS-29-060525	Solid	Percent Solids	Cool 4 deg C	NOBI03	D21	06/05/2025	Chemtech -SO
Q2259-06	OU4-TS-30-060525	Solid	Percent Solids	Cool 4 deg C	NOBI03	D21	06/05/2025	Chemtech -SO

Date/Time 06/06/25 15:20

Raw Sample Received by:

Raw Sample Relinquished by: SH

Date/Time 06/06/25 17:30

Raw Sample Received by: SH

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB136040

WorkList Name : %1-060625 **WorkList ID :** 189986 **Department :** Wet-Chemistry **Date :** 06-06-2025 08:11:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2260-01	TP10-MHG-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/06/2025	Chemtech -SO
Q2260-02	TP10-MHG-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/06/2025	Chemtech -SO
Q2260-03	TP10-MHG-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/06/2025	Chemtech -SO
Q2262-01	ARS20-0032	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	06/06/2025	Chemtech -SO
Q2262-03	ARS20-0001	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	06/06/2025	Chemtech -SO
Q2265-01	TP-MHL-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2265-02	TP-MHL-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2265-03	TP-MHL-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2266-01	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2266-02	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2266-03	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2266-05	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2266-06	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO
Q2266-07	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/06/2025	Chemtech -SO

Date/Time 06/06/25 15:20
Raw Sample Received by: SB WC
Raw Sample Relinquished by: SM

Date/Time 06/06/25 17:30
Raw Sample Received by: SM
Raw Sample Relinquished by: WC

SHIPPING DOCUMENTS

Q2259

Chemtech

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page __1__ of __1__

Company Name:	Nobis Group
Address:	55 Technology Dr Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	B. Fortier

Requested Turnaround Time
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020
	OU4-PCS-TC-36-060525	6/5/25	11:25	G	SO		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-37-060525	6/5/25	11:35	G	SO		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-29-060525	6/5/25	13:30	G	SO			1											X		
	OU4-TS-30-060525	6/5/25	13:35	G	SO			1											X		

[2] Preservation Code

Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 6/5/25 13:45	Client Comments:
Received by: (signature) Cooler	Date/Time: 6/5/25 13:45	
Relinquished by: (signature) FedEx	Date/Time: 6/6/25 1004	
Received by: (signature)	Date/Time: 6/6/25 1004	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments: 3.4°C

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q2259 NOBI03	**Order Date :**	6/6/2025 10:57:00 AM	**Project Mgr :**	
Client Name :	Nobis Group	**Project Name :**	Raymark Superfund Site	**Report Type :**	Level 4
Client Contact :	Adam Roy	**Receive DateTime :**	6/6/2025 10:04:00 AM	**EDD Type :**	EQUIS
Invoice Name :	Nobis Group	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Adam Roy			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2259-01	OU4-PCS-TC-36-060525	Solid	06/05/2025	11:25					
					VOCMS Group3		8260D	10 Bus. Days	
Q2259-03	OU4-PCS-TC-37-060525	Solid	06/05/2025	11:35					
					VOCMS Group3		8260D	10 Bus. Days	

Relinguished By : [signature]
Date / Time : 6/6/25 1136

Received By : [signature]
Date / Time : 06/06/25 11:36
Storage Area : VOA Refridgerator Room